



5/S

SAN FRANCISCO
PUBLIC LIBRARY

GOVERNMENT INFORMATION CENTER
SAN FRANCISCO PUBLIC LIBRARY

REFERENCE BOOK

Not to be taken from the Library

E5 71572

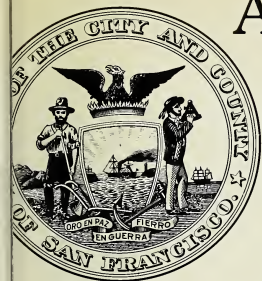
SAN FRANCISCO PUBLIC LIBRARY



3 1223 90187 3720



Digitized by the Internet Archive
in 2015



ANNUAL REPORT

1968-69

DOCUMENTS

JUL 1 1971

SAN FRANCISCO
PUBLIC LIBRARY

DEPARTMENT OF PUBLIC WORKS

City and County of San Francisco



ANNUAL REPORT

OF THE

**Department of Public Works
City and County of San Francisco**



JUNE 30, 1969



**JOSEPH L. ALIOTO
MAYOR**

**THOMAS J. MELLON
CHIEF ADMINISTRATIVE OFFICER**

**S. MYRON TATARIAN
DIRECTOR OF PUBLIC WORKS**



MATERIAL COMPILED BY JOHN A. JELINCICH, BUREAU OF ENGINEERING

TABLE OF CONTENTS

DIRECTOR'S LETTER OF TRANSMITTAL	4
BUREAU OF ENGINEERING	6
BUREAU OF ARCHITECTURE	97
BUREAU OF BUILDING INSPECTION	123
Central Permit Bureau	155
MAINTENANCE AND OPERATION BUREAUS	160
Bureau of Water Pollution Control	163
Bureau of Street Repair	177
Bureau of Building Repair	187
Bureau of Street Cleaning and Planting	196
ADMINISTRATIVE BUREAUS	
Bureau of Accounts	214
Bureau of Personnel Administration	216

COVER PHOTO

GATEWAY TO CHINATOWN

The design for the Gateway to Chinatown was chosen as a result of a competition open to all Architects of Chinese descent. Of the thirty (30) competition drawings submitted, the design of Lee, Lee, and Yee was selected. It was built at a construction cost of \$90,-889.15, by the Moreau Construction Co., and completed on October 16, 1969. This cost did not include the extensive modifications to utility facilities which had to be moved in order to provide space for the Gateway.

The roofing, special ornamentation, and lion-dogs flanking the entrance were prepared, cast and carved in Taiwan and given to San Francisco for this Gateway by the Republic of China.

Photo by John A. Jelincich, Bureau of Engineering.

MAYOR
JOSEPH L. ALIOTO

**CHIEF
ADMINISTRATIVE
OFFICER**
THOMAS J. MELLON

DIRECTOR
S. MYRON TATARIAN

DEPARTMENT OF PUBLIC WORKS



CITY AND COUNTY OF SAN FRANCISCO

JUNE 30, 1969
ORGANIZATION CHART

**ASSISTANT
DIRECTOR**
ADMINISTRATIVE
R. BROOKS LARTER

**GENERAL
OFFICE**

**BUREAU OF
ACCOUNTS**
SUPERVISOR
JUN IWAMOTO

**PERSONNEL
ADMINISTRATION**
SUPERVISOR
ALBERT C. AMBROSE

**ASSISTANT
DIRECTOR**
**MAINTENANCE
AND OPERATION**
ARVID H. EKENBERG

**BUREAU OF WATER
POLLUTION
CONTROL**
SUPERINTENDENT
KEENO FRASCHINA

**BUREAU OF
STREET REPAIR**
SUPERINTENDENT
CHARLES F. McFADDEN

**BUREAU OF
BUILDING
REPAIR**
SUPERINTENDENT
JOHN S. RUTHERFORD

**BUREAU OF
STREET CLEANING
AND PLANTING**
SUPERINTENDENT
BERNARD M. CROTTY

**BUREAU OF
ENGINEERING**
CITY ENGINEER
ROBERT C. LEVY

**BUREAU OF
ARCHITECTURE**
CITY ARCHITECT
CHARLES W. GRIFFITH

**BUREAU OF
BUILDING
INSPECTION**
SUPERINTENDENT
ALFRED GOLDBERG

**CENTRAL PERMIT
BUREAU**
SUPERVISOR
CLYDE VOLENS



CITY AND COUNTY OF SAN FRANCISCO
DEPARTMENT OF PUBLIC WORKS

OFFICE OF THE
DIRECTOR OF PUBLIC WORKS

January 5, 1970

260 CITY HALL
SAN FRANCISCO
CALIFORNIA 94102

Annual Report
1968-1969

Mr. Thomas J. Mellon
Chief Administrative Officer
City and County of San Francisco

Dear Mr. Mellon:

In compliance with the provisions of Section 20 of the Charter of the City and County of San Francisco, I submit the annual report of the Department of Public Works for the fiscal year ending June 30, 1969.

The Department budget totaled \$30,073,622 from the following budgeted sources: General Fund, Special Gas Tax Street Improvement Fund and Road Fund. The amount actually expended was \$27,340,944.

During the year the Department awarded 312 contracts for a total bid amount of approximately \$18,660,000. These figures represent increases of one contract and \$1,180,000 over the previous year.

Construction projects of wide general interest or of substantial scale completed or under construction during the year included: Potrero Hill and Visitacion Valley Junior High Schools, Richmond-Sunset and Chinatown-North Beach District Health Centers, Major Improvements to Water Pollution Control Plants and Sewerage Facilities, various Urban Beautifications and Improvements, Laboratory and Classroom Building in City College, Gateway to Chinatown, Combined Central Police Station and North Beach Parking Facility, Reconstruction of Streets in the Golden Gateway Redevelopment Area, Army Street Circle Rechannelization-First Phase and Seventh Street Extension.

Unusual activities during the year included the establishment in the Department of a new shop for installing and maintaining traffic signs. In addition, major efforts were devoted to the preparation of proposed dry weather and wet weather water pollution abatement programs for consideration by the Board of Supervisors. Also, the ground work was completed for three additional Federally Assisted Code Enforcement (FACE) program areas. The actual design work for the Service Building of the \$34,000,000 San Francisco Medical Center was finalized also in this past year.

Mr. Thomas J. Mellon

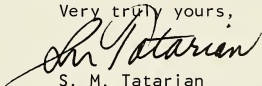
Annual Report
1968-1969

As in the previous two or three years, private building activities continued at a high cost volume with emphasis on major structures, primarily those representing headquarters buildings of banks and insurance firms. Also, a very significant activity is the dozen or so of new major hotels in the planning stage or under construction.

Once again, I wish to commend the Assistant Directors, the Bureau Heads, their staffs and the personnel of the Department for their fine efforts and cooperation.

In conclusion, may I say that your guidance and support throughout the year was deeply appreciated.

Very truly yours,

A handwritten signature in dark ink, appearing to read "S. M. Tatarian", with a stylized, flowing script.

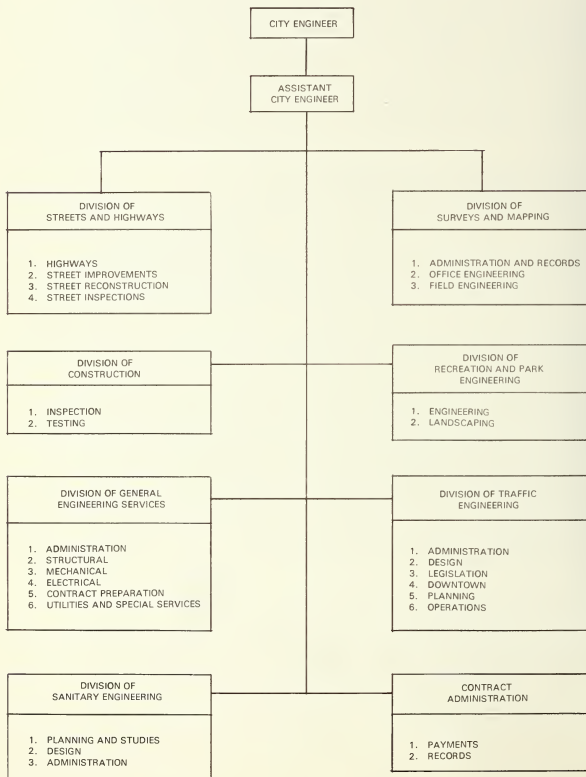
S. M. Tatarian
Director of Public Works

ORGANIZATION CHART

BUREAU OF ENGINEERING

DEPARTMENT OF PUBLIC WORKS

JUNE 30, 1969



BUREAU OF ENGINEERING

Robert C. Levy, City Engineer

Fiscal 1968-69 was a year of reorganization, administrative streamlining, and the assigning of new objectives and priorities for the Bureau of Engineering.

In January of 1969, in order to meet new demands placed on the Bureau by the high priority of the City's water pollution control activities, the Sewers Design Section and the Sanitary and Special Projects Section, formerly in the Division of Design, were combined and elevated to Division status.

The new Division of Sanitary Engineering has the responsibility for providing over-all planning and design for San Francisco's waste removal and water pollution control programs, and their coordination with Federal and regional water pollution control programs.

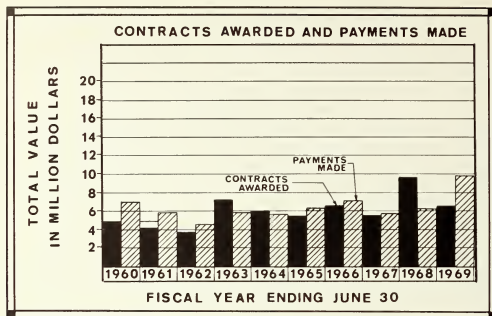
In order to better coordinate and centralize the administrative, planning, legal, and liaison functions of the Bureau of Engineering, several functions formerly performed by Division of Streets and Highways, and Office Management, have been combined with the remaining Sections of the former Division of Design into the General Engineering Services Division.

The function of this new Division is to centralize such administrative tasks as Office Management, Bureau payroll, project planning, project scheduling, budget development, application of computer sciences, and legal and liaison activities internal and external to the Bureau, as well as continuing to provide the structural, mechanical and electrical design, contract preparation and utilities coordination services for the Bureau.

The objective is to create a more efficient administrative unit, able to make better use of professional, technical and clerical personnel and computer capability, as well as enabling the Bureau of Engineering to be more technically and administratively responsive to changing technical priorities and conditions.

In January 1969 the reporting of the time spent on individual jobs, and the breakdown of individual tasks was reorganized and computerized. This should allow better control of the engineering personnel, and also better programming of jobs. During the last few months revisions were made to allow better use of the reports.

Experience is too short, of course, to allow detailed evaluation of the effectiveness of these changes. The next Annual Report will be able to evaluate the effectiveness of the change, in organization and operation.



CURRENT CONTRACT DATA SUMMARY

SHOWING ALL CONTRACT WORK AWARDED OR UNDER WAY

July 1, 1968 - June 30, 1969

Table	Type of Construction	Contracts Awarded		Amount Expended Fiscal Year 1968 - 1969
		No.	Aggregate Value	
A	Major Thoroughfares	1	\$ 53,895.75	\$1,202,883.90
B-1	Streets - Private Contracts	3	90,981.00	43,950.00
B-2	Streets - Assessment Proceedings	5	10,600.00	719,220.40
B-3	Streets - Public Contract City Pay	16	1,105,855.50	996,640.12
C	Traffic Signals & Channelization	4	198,132.10	315,523.16
D-1	Sewers - Vitrified Clay & Concrete	10	734,184.20	1,169,797.85
D-2	Sewers - Concrete Monolith	2	1,312,886.00	684,667.40
E	Recreation-Park	13	661,432.83	628,604.98
F	Miscellaneous	36	2,057,525.72	3,802,837.74
G	Informal & Emergency	15	195,393.34	152,980.70
TOTALS			105 \$6,420,886.44	9,717,106.25

Bureau of Architecture

*Engineering Design

\$1,012,000.00

B. A. R. T. D.

*Engineering Design

\$1,174,000.00

*Engineers Estimate

RECREATION AND PARK ENGINEERING

URBAN BEAUTIFICATION AND IMPROVEMENT PROGRAM

The Urban Beautification and Improvement Program is authorized by the provisions of the Housing and Urban Development Act of 1965 which amends Title VII of the Housing Act of 1961. The program is designed to help communities to become more pleasant and desirable places in which to live. Federal grants may be obtained for beautification activities providing long-term benefits to a community.

The beautification projects must be part of an officially adopted program of both public and private activities planned for the next 3 to 5 years. Assistance is available only for the public portion of the activity.

Any public or local body with authority to undertake urban beautification activities and to contract with the Federal Government to receive grants is eligible for assistance. To become eligible the locality's beautification program must be carried out in an urban area, the application shall set forth all of the proposed beautification activities for a full year, activities are directly related to open space and other publicly owned lands, and activities are started and costs incurred during the year.

The proposed beautification program must be an important element of the planned development of the locality and the application for grant shall evidence this by showing that comprehensive planning is actively being carried out and that the locality's beautification program is consistent with its comprehensive planning program.

The amount of the grant is based upon the amount the locality has expended on beautification measures in the fiscal years 1964-65 and 1965-66 (base cost) and the estimated amount to be expended in the coming fiscal year. The maximum amount of the grant is calculated at 50% of the excess amount proposed over the base cost. Payment of the grant is made as a reimbursement of costs incurred for eligible activities.

The following projects described were accomplished with other funds but qualified the City and County for Urban Beautification Grant money:

Gilman Playground

What was once a poorly developed playground has been converted into a pleasant and useful recreation park in a section of the City where the need is greatest.

Gilman Playground, adjacent to Candlestick Park, in the south Bayshore Area of San Francisco, is near the Hunters Point Redevelopment Project Area. It was once a fenced rocky area of Bay fill with little grass and facilities limited to small softball field and backstop, a basketball court and a convenience station.

The improvements include grading, the installation of an automatic irrigation system, lawn and trees, a baseball diamond and backstop, a concrete dance pad, swings, slides and climbing devices, picnic tables and barbecue facilities.

Perimeter fences were eliminated wherever possible to create an open space atmosphere and to make the grounds more accessible and inviting.

This project qualifies as an urban beautification project in that this area is now under study as part of a long-term rehabilitation and conservation program designated in the Master Plan and Community Renewal Program.

The play area and picnic tables are interspersed among the existing trees and new trees were added to create a recreation area within a park.

The contract cost was \$126,981.50, funded by the Recreation and Park Department general fund.



Brotherhood Way Landscaping

Since its reconstruction in 1961, Brotherhood Way, in the southwest corner of the City, had little or no landscaping. Brotherhood Way, connecting Alemany Boulevard with Lake Merced Boulevard, goes through a natural park area. In keeping with the natural surroundings and the improvements abutting the street, the Divisions of Recreation and Park Engineering and General Engineering Services developed plans for irrigation and landscaping of the borders and median strip extending the green area eastward from Lake Merced Boulevard to Thomas More Way.

The project qualifies as an Urban Beautification project.

The contract cost for the project was \$109,798.20, funded from Gasoline Tax Road funds.



WASHINGTON AND DRUMM STREETS - WIDENING

Washington Street from the Embarcadero to Drumm Street, and Drumm Street from Washington Street to Clay Street were widened from 68.75' right-of-way to 94' to provide the first segment of an arterial street through Redevelopment Area E-1. A 4-lane divided roadway will ultimately be extended southerly to Market Street.



BEFORE



BEFORE

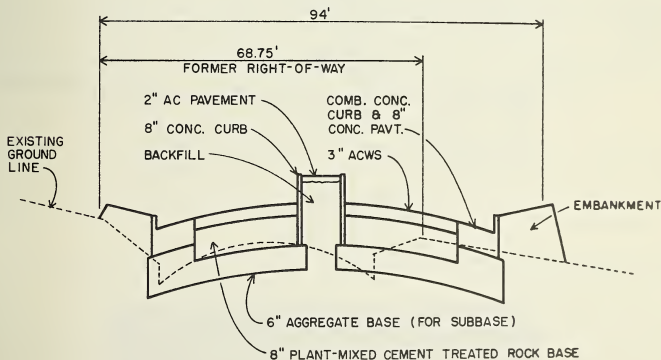


AFTER



AFTER

Construction of these two streets began in early 1969. Due to inclement weather, the Contractor was unable to prepare the subgrade for the proposed roadway pavement. To expedite construction of the streets, the design pavement section was changed from 3" asphalt concrete wearing surface on 8" plant-mixed cement treated rock base on 6" aggregate base to 2" asphalt concrete wearing surface on 10" asphalt concrete base. The revised pavement section which permits the use of thick lift pavement construction technique was completed and opened to traffic within a very short time.

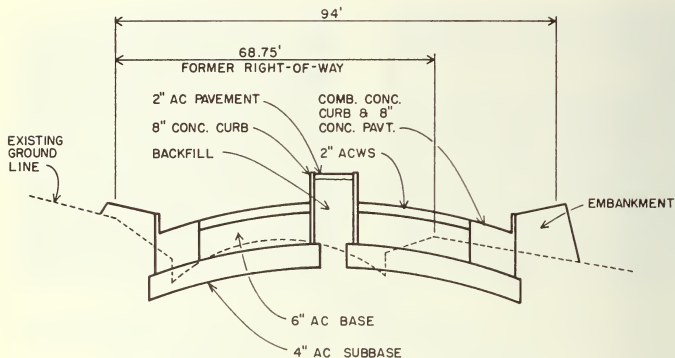


ORIGINAL PAVEMENT SECTION

NO SCALE

WASHINGTON AND DRUMM STREETS WIDENING

This is the City's first experience with thick lift asphalt pavement construction. The result appears to be wholly satisfactory, and we expect to use this type construction, where advantageous, in the future.



REVISED PAVEMENT SECTION

NO SCALE

REDEVELOPMENT AREA E-1 CONTRACT "H"

In line with the redevelopment program, city streets are reconstructed when an area has reached a certain stage in redevelopment. Washington Street (Drumm to Embarcadero) and Drumm Street (Washington to Clay) were contracted for widening and reconstruction. The proposed new pavement consisted of 8-inch concrete pavement on 9-inch aggregate sub-base at the parking strips and 3-inch asphaltic concrete wearing surface on 8-inch cement treated base on 6-inch aggregate sub-base at all other locations.

Since construction started at the beginning of 1969 this project was adversely affected by the wet winter, experienced at this time. The contractor had to suspend operation. It was then decided to substitute deep-lift asphalt concrete pavement for two reasons:

1. To speed up completion by minimizing the effects of the wet weather conditions.
2. To try out deep-lift asphaltic concrete pavement, since their use is contemplated on future contracts.

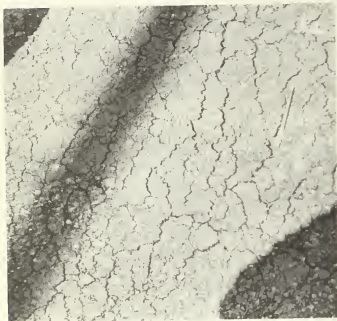
The revised proposed pavement consisted of 8-inch concrete pavement on 4-inch asphaltic concrete sub-base at the parking strips and 2-inch asphaltic concrete wearing surface on 6-inch asphaltic concrete base on 4-inch asphaltic concrete sub-base.

As soon as the subgrade was sufficiently stable, the 4-inch asphaltic concrete sub-base was laid.



Placing and Compacting 4-inch A. C. Sub-base

This formed a weatherproof platform for all subsequent operations. Soft spots did not show up in subsequent lifts.



Soft Spots



Forming for combined curb and concrete parking strip and A.C. sub-base.



Concrete Curb & Parking strip installed.



View of drumm Street, concrete pavement and curb placed on 4" AC sub-base.



6" A.C. Base placed in one lift



Initial rolling with steel roller



Initial compactive effort of roller



Over-all view—initial and final rolling with steel roller; break-down rolling with rubber-tired rolling. Compaction controlled with air flow meter



Compaction was controlled with an air flow meter courtesy of Chevron Research Corp.



Rolling method was changed to using the rubber-tired roller only



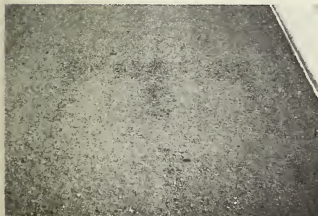
Initial compactive effort of the rubber-tired roller



Traffic could not wait for completion of rolling-
no adverse effects



An impatient car



Surface appearance of compacted 6-inch
A. C. Base



Cores of A.C. Pavement were taken
to check density

The A. C. wearing surface was placed in the usual manner.

Conclusions from this job change are:

1. Helped speed up the job, especially in wet weather.
2. Minimized traffic inconvenience by reducing traffic shut-down.
3. The air flow meter shows promise as an inexpensive tool to control density of A. C. Pavements.

ILLINOIS STREET PAVEMENT RECONSTRUCTION EL DORADO STREET TO 23RD STREET

Illinois Street located easterly of Third Street in the area of heavy industries was reconstructed between El Dorado Street and 23rd Street to provide some relief to the traffic congestion on Third Street.

The main tracks which run the entire length of Illinois Street were adjusted to official grades by the railway companies in the summer of 1968. Reconstruction of the pavement outside the track areas was started in March, 1969 and scheduled to be completed in the autumn of 1969.



Illinois St. near China Basin St. During Early Construction Stage
(Photo looking northeasterly)



At Completion

UNION STREET PAVEMENT RECONSTRUCTION

As with many streets in San Francisco, Union Street is too steep to be maintained by resurfacing with a course of asphalt concrete. Complete reconstruction of the pavement and the replacement of the sewer were required to rehabilitate the deteriorated street.

Union Street looking east from Kearney Street.



SUNNYDALE AVENUE EXTENSION PAVEMENT RECONSTRUCTION

Sunnydale Avenue Extension, located in San Francisco McLaren Park, is part of the 49 Mile Scenic Drive. The pavement was reconstructed to improve vehicular movements by widening the roadway from 36 feet to 40 feet, by flattening the roadway crest to improve sight distance and by constructing the guard rail to improve safety. A new drainage system was also constructed to remove the ground and surface water.



Sunnydale Ave. Extension at the entrance to McLaren Municipal Golf Course.



View of Sunnydale Ave. Extension winding to Visitacion Valley.

IMPROVEMENT OF GREENWICH STREET BETWEEN SANSOME AND MONTGOMERY STREETS (STAIRWAY AND WALKWAY)

This modern design concrete stairway was constructed to replace a deteriorated wooden stairway that was becoming a maintenance problem.

This stairway serves private property and the tourist pedestrian traffic between Coit Tower and the Waterfront.

Before and after pictures.



IMPROVEMENT OF JERROLD AVENUE IN THE VICINITY OF UPTON STREET

This street improvement completes the northerly approach route to the San Francisco Wholesale Produce Market.

Before and after pictures



STREET AND SIDEWALK INSPECTIONS

During the past fiscal year substantial construction and repair of sidewalks in the City and County of San Francisco was effected by a team of Street Inspectors who notified property owners of their obligation to maintain their sidewalks in a condition of good repair. One of the prime factors which has produced excellent cooperation on the part of the property owner was the availability of a contract service which could be utilized by either the property owner or the City for repairing or reconstructing sidewalks.

Through the medium of the fiscal year contract for the "Construction, Repair, and Replacement of Sidewalks, Driveways, Curbs, and Gutters at Various Locations," a total of 451 Work Orders were initiated. Of these, 188 Work Orders were signed and paid for by property owners and 91 Work Orders were signed by the City.

Property owners paid the Contractor \$51,125.29 and the City paid \$22,500.00 for Sidewalk Repair and Construction in conjunction with the above Work Orders.

During this fiscal year, the inspection effort of this section resulted in the issuance of notices totaling about 600,000 square feet of sidewalk repair. This figure, when compared to the number of square feet contained in the permits for sidewalk repair secured at the Central Permit Bureau, which was 3,880 permits, or 1,409,090 square feet, discloses that the inspections by this Section lead to about 50% of the total Square Feet of sidewalk repairs in the City and County of San Francisco.

Blasting inspections were greatly increased due to Bay Area Rapid Transit Construction. Although the blasting activity was in fairly congested areas there were relatively few complaints from the residents.

Due to strict control and review by the Bay Conservation and Development Commission of the State of California, no new dump permits were issued this fiscal year.

CLAIMS - 1968-69

In connection with the investigation of claims against the City arising from street or sidewalk usage, inspection personnel made Court appearances and assisted the City Attorney's Office in completing reports, depositions, and interrogatories. During the 1968-69 Fiscal Year, 227 claim investigations were made, with 52 claims cases disposed of by the City Attorney. Of these 52 cases, 22 were won by the City or were dismissed, while 30 cases resulted in litigated settlements or judgments, amounting to \$33,195, or 1.1 per cent of \$2,961,685 sought by the claimants. In addition, 124 possible claim investigations were made during this period.

STRYBING ARBORETUM

GARDEN WORK CENTER

GOLDEN GATE PARK

Completed in July of this year, this project was a good example of the cooperation of effort between various City agencies and certain outside organizations. The construction of the garden work center was sponsored by Sunset Magazine who retained the services of a Consulting Landscape Architect, Splenda and Yamamoto of Berkeley, California. The basic purpose of the project was to demonstrate various techniques of potting and displaying plants as well as developing storage areas for garden work implements in aesthetically pleasing surroundings.



The above photograph indicates the monolithic reinforced concrete wall behind which vertical storage cabinets were constructed for the storage of tools and various garden implements. The front of the seven-foot high decorative wall is of a slightly exposed aggregate and the various surfaces were offset to minimize the massive bulkiness of the wall. This particular photograph was taken shortly after placing of the concrete in the wall and during the curing process. In the background note four redwood columns which are to support the 12' x 12' arbor with a translucent plastic covering.



Photograph above shows the work bench during construction. Surface of this work bench is composed of 3" x 6" x 6" verticle grain redwood blocks with a 1/4" diameter steel rod inserted through the centers of the blocks to maintain structural integrity.



The above photograph was taken during the installation of the 7 1/2" x 7 1/2" paving block installed in the area immediately adjacent to the work bench under the 12' x 12' arbor. Note that on the right side of the photograph pavers have been placed in what appears to be

random positions, but are in fact control pavers very carefully set to establish line and grade for all of the additional pavers which were to be installed. The pavers were set on a bed of mortar on top of the reinforced concrete slab. The post shown on the left foreground is one of the support members for the arbor.



The above photograph shows the garden work center after the completion of the workbench and installation of the pavers, but prior to final grouting of the paver blocks. In the righthand foreground is a redwood planting pyramid constructed out of clear heart redwood donated by the Union Lumber Company of Fort Bragg, California.



This view is taken from the work bench looking past the planting pyramid towards the monolithic decorative wall. This photograph was taken upon the completion of the City contract, but prior to the placing of various shrubs and plants to be installed by Golden Gate Park personnel.

The official dedication of the Strybing Arboretum Garden Work Center was on August 21, 1969 and the entire project was the subject of an article in the November issue of Sunset Magazine.

ARMY STREET CIRCLE RECHANNELIZATION
CONTRACT 1

GENERAL

Through the 200 yard wide gap between Potrero Hill and Peralta Heights pours one of the heaviest concentrations of traffic in the world. Every day, 220,000 vehicles, 135,000 on the freeway and 85,000 on surface streets pass through this area causing severe congestion and resulting in over 70 accidents per year on the city streets alone. It is estimated that the Army Street Circle Rechannelization project will result in an annual reduction of 61 accidents and savings to motorists of \$1,100,000 yearly.



December 19, 1968 - Forms in place for abutment and for one pier on Potrero Avenue and reinforcement in place for double pier on Potrero (upper left hand corner of picture). Abutment and piers of bridge from Army Street to freeway are shown across the bottom of the picture.

ALPINE TERRACE: SEWER & PAVEMENT

Steep streets are not extraordinary in San Francisco. Sometimes extra precautions should be taken in excavation operations.

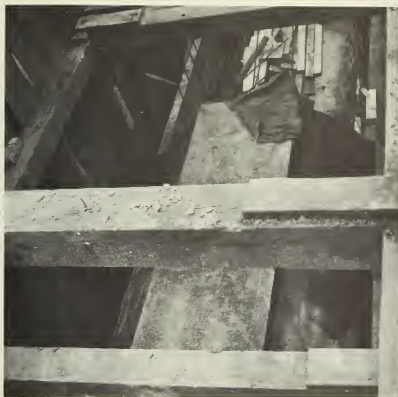


Sometimes mechanical finishing equipment is not feasible.



SEWER IMPROVEMENT IN THE VICINITY OF
23RD AND MINNESOTA STREET

An excellent job of shoring is shown here. Note that the lower set of walers are braced with pipe spreaders rather than timber spreaders. These will be removed when the invert of the sewer structure is poured. (See Photo No. 3) Creosoted piles will be cut to the grade forming the foundation for cast-in-place reinforced concrete sewer.



The walls and top of sewer have been placed. Note cleats on side wall of timber Shoring System.



Again, an excellent shoring job is shown. Invert pour has been made and side panels for walls of reinforced concrete sewer are in place.

DIVISION STREET SEWER SECTION "B"

This project consisted of closing the one block gap in the third compartment of a three-compartment concrete box sewer.

Noteworthy features of this project were:

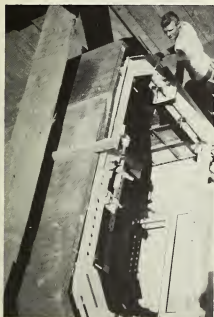
1. The contractor used patented collapsible forms to form the inside faces of the side walls and top slab of the box sewer.
2. The contractor used Kaiser "Pronto" cement in the concrete for the side walls and top slab. This enabled him to attain early stripping strength. Combined with his inside forming technique, through proper programming, this enables him to increase frequency of concrete placement per week.



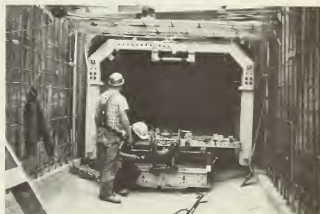
Inside Forms
Setting Steel Ribs
Note: Wall of existing
sewer to the left.



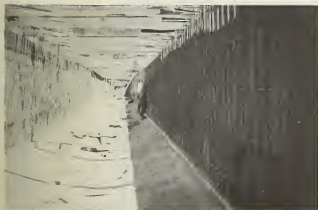
Inside Forms
Top view of steel ribs



Inside Forms
Front detail showing forms in place.



Inside Forms
Front view - Preparing to pull inside assembly forward



Placing Wall Steel prior to moving
inside forms forward



Inside surface of wall after stripping
prior to finishing

SHORELINE RECONSTRUCTION OF McNAB RESERVOIR AT McLAREN PARK

The reconstruction of McNab Reservoir, McLaren Park, was completed on June 30, 1969 and presented certain unique construction problems. The successful low bidder for this contract was Peterson, Rathbun and Moore of San Mateo, California. The official starting date for this contract was February 17, 1969, but unfortunately, the heavy rains of February and March caused considerable inconvenience to the contractor during the early phases of construction. The ground water table in McLaren Park, as a result of the rains, had risen considerably and was causing continual work stoppages during the excavation operation. The contractor then constructed a temporary asphalt ditch along the southern perimeter of the job site in order to drain off the ground water coming into the work area so that he might proceed with his construction operations. He was successful in this endeavor and by the end of March had made substantial progress in his excavation operations. Prior to the start of this contract, certain of the contractors from the BARTD work on Market Street had been depositing their refuse bentonite material in the storage lake area. This material was to be incorporated in the new sub-grade in the bottom of the lake. Unfortunately, the rains in February and March turned this bentonite material into a quagmire and a great deal of difficulty was experienced in attempting to spread and compact it prior to the placing of the crushed rock overlay in the basin of the lake.



Existing outfall structure during construction at the southeastern corner of McNab Reservoir, McLaren Park



Remodeled Outfall Structure

It is interesting to note in the two photographs above, the apparent decrease in the overall elevation of the outfall structure. The fact is the overall height of the structure was increased by 6" during this construction, but by installing a Douglas Fir apron around the structure this silhouette appears considerably lower. The bench shown in the background of the second picture above was not part of the original contract. It was constructed under Force Account proceedings near the end of the contract.



Looking southeast towards the original outfall structure



Existing influent from McLaren
Park runoff and ground water

The low silhouette of the outfall structure mentioned above is clearly demonstrated in these two comparative photographs. Note that along the rim of the new wall, a redwood bumper strip has been installed. This was constructed from three 1" x 10" redwood planks laminated together and bolted into the new wall.



Same view as above after the
completion of the work



Inflow area after completion of the construction under this contract

The view shown indicates the primary source of water for McNab Reservoir. At the bottom of the inflow grade will be seen a series of diffuser boxes which are 5' x 5' square on the top and when the lake is full of water they will appear as giant stepping stones in the lake. The second picture was taken in July 1969, but already a certain amount of water can be seen on the lake bottom, thus showing the runoff even during the summer months in this area.



Looking northwest towards the round house after the completion of the work



Looking northwest towards the round
house prior to the start of the contract

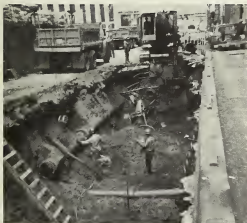
The overall improvement of this area is rather dramatically presented in these two photographs. Additional tree planting and landscaping contracts are contemplated in this area which should serve to enhance the appearance of this part of the park even more dramatically.

BAY AREA RAPID TRANSIT DISTRICT

After a decade of proposals, studies and plans, construction of A Rapid Transit system in the San Francisco Bay Area became a reality. The first two phases of this three-phased plan are now actualized: engineering and construction; the final phase being operation.

Since 1967, large scale tunneling and excavation in two of San Francisco's major traffic corridors have required precise phasing and cooperation between numerous contracting firms and various City departments. In addition, portions of the City's utility system have undergone major alterations. Electrical facilities, sanitary and water lines have been relocated, replaced, or supported in place to facilitate major construction in heavily congested "utility jungles."

Some of the work required at various stages of construction is illustrated in the following photographs.

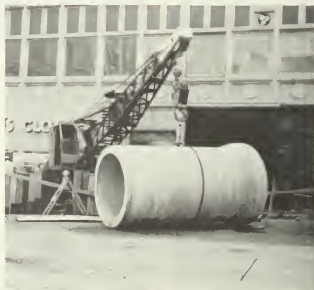


MISSION STREET - 24TH STREET STATION



Construct and support in place as required concrete encased sanitary facilities in sidewalk areas as permanent structures.

MARKET STREET - POWELL STREET STATION



Install new permanent 60" R.C. sewer line in basement of building scheduled for demolition.

OUTER MISSION - BALBOA PARK STATION



Construct permanent Deep Shaft manholes outside Rapid Transit Right-of-Way to maintain sanitary facilities installed under track-way.

Restoration begins - May, 1969.

MISSION STREET SUBWAY TUNNELS VICINITY 23RD STREET



Remove utility supports and temporary encasements.



Install structure backfill.



Restore previously salvaged cast iron high pressure water line for fire protection.

BALBOA PARK STATION



Of course, some people just can't wait for the first trains!

DIVISION OF CONSTRUCTION MATERIALS TESTING LABORATORY

The Materials Testing Laboratory has continued to serve the Department and other City agencies by providing testing services, project evaluation and consulting services related to engineering materials.

The acquisition of a new carry-all type truck has added flexibility and efficiency to the laboratory's operations of field testing and plant inspection. Off site inspections have been performed throughout the San Francisco Bay Area as well as in San Francisco itself.

Cooperative efforts between the design sections and the laboratory have produced tangible results. These projects include a series of special gap graded concrete mix designs for use as exposed aggregate surfaces, new asphalt mix designs for deep lift construction, improved specifications for several engineering materials and evaluations of corrosion inhibiting protective coating.

The Materials Testing Laboratory provides quality control of asphalt through:

PLANT CONTROL AND



FIELD INSPECTION

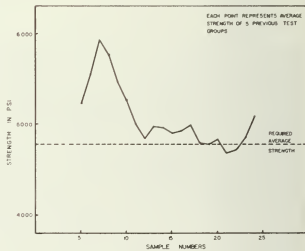
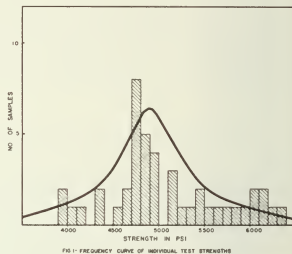
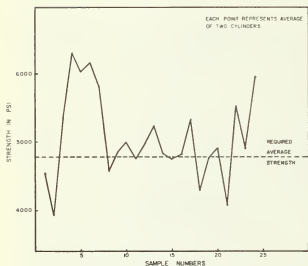


The Materials Testing Laboratory has statistical methods available for analyzing test results.

SEWER IMPROVEMENTS IN THE VICINITY
OF 23RD & MINNESOTA STREETS
SPECIFICATION NO. 22,826

EVALUATION OF CONCRETE COMPRESSION
TEST RESULTS - A.C.I. 214.65

QUALITY CONTROL CHARTS



Computed Values:

\bar{x} = Individual Compressive Strength n = Number of Samples
Average 28-Day Compressive Strength $= \bar{X} = \Sigma x/n = 5070$ psi
Standard Deviation $= \sigma = \sqrt{(x_1^2 + x_2^2 + x_3^2 + \dots + x_n^2)/n - \bar{X}^2} = 813$
Coefficient of Variation $= V = \frac{\sigma}{\bar{X}} \times 100 = 16.03\%$
Required Average Strength $= f_{cr} = f_c / (1 - V^2) = 4783$ (assuming 1 test in 200 fails)

CONVERSION OF OVERHEAD UTILITY LINES
TO AN UNDERGROUND-WIRED SYSTEM -
ACCELERATED PROGRAM

Many factors accentuate the need to accelerate the conversion of all overhead utility lines to an underground-wired system. Some of these are:

- a) Overhead wires detract from the natural beauty of the City. The natural beauty of the City is a prime economic asset necessary to attract tourists and new industry.
- b) Aesthetically pleasing neighborhoods help to keep families from leaving the City.
- c) The conversion of overhead utility lines to an underground system results in property values higher than in comparable neighborhoods which have overhead systems.
- d) Undergrounding facilitates curb parking and effects a decrease in property damage and personal injuries.
- e) An augmented underground program could stimulate neighborhood rehabilitation programs by property owners which could forestall the need for possible future renewal.
- f) The White House Conference on Natural Beauty has focused national attention on the possibility of undergrounding all utility wires.
- g) The desirability of putting all utility wires underground has been expressed as policy of the City and County for over 68 years in the requirement that all private utilities place underground each year the overhead wires on two and one-half ($2\frac{1}{2}$) miles of City streets.
- h) At the rate of $2\frac{1}{2}$ miles per year, the program to convert existing overhead lines would take well over 200 years.

Prior to 1968, undergrounding mileage chargeable to the Pacific Gas and Electric Company (conversion from overhead distribution to underground distribution) was, as indicated above, two and one-half miles annually. This mileage is specified under Article 11, Section 1105 of Chapter III, Part II, of the San Francisco Municipal Code.

This limitation has been increased by State Public Utility Commission decision No. 73,078 on Case 8209, approved September 19, 1967. Decision No. 73,078 requires that the Pacific Gas and Electric Company allocate a significant sum per annum for the conversion of its overhead distribution system. The Pacific Telephone and Telegraph Company is committed to match the Pacific Gas and Electric Company conversion rate.

The sum allocated by the Pacific Gas & Electric Company for their conversion program is annually submitted to the State Public Utilities Commission.

The funds allocated to conversion in the City and County of San Francisco, and the mileage accomplished as of June 30, 1969, i.e., the mileage completed or under construction or contracted but not yet started, are as follows:

YEAR	FUNDS BUDGETED BY	
	P. G. & E. CO.	WORK ACCOMPLISHED
1968	\$ 959,700	3.73 miles
1969	1,000,300	2.21 miles *

* up to June 30, 1969 only

Estimates indicate that the funds remaining in the 1969 allotment will enable the City to underground approximately five (5) miles of existing underground systems during 1969.

A review of the work accomplished to date indicates that Decision 73,078 makes it possible for the City to accelerate the conversion program from two and one-half miles per year to about five (5) or more miles per year.

The acceleration reflected by Decision No. 73,078, although significant because of the results noted above, and because it will enable the City to decrease the time necessary to convert all existing overhead wires from a minimum of more than 200 years to about 100 years, is obviously inadequate because of the ever-increasing environmental changes occurring throughout the City. Accordingly during the public hearings on Case 8209 which resulted in Decision 73,078, it was recognized that the impact of a favorable decision on Case 8209 would be limited. Therefore, while hearings on Case 8209 were in progress, consideration was being given by the City for the initiation of a more comprehensive accelerated program.

The City's position was finally reflected in Resolution 406-67, approved on June 21, 1967. This resolution sets forth the following policies:

- a) All utility wires in urban areas should be underground;
- b) The Chief Administrative Officer and the Director of Public Works shall inaugurate and submit to the Board for approval and implementation a comprehensive program within the financial capabilities of the City and the private utilities to convert all overhead utility lines to an underground system; and
- c) As a first step toward achieving a master conversion plan, the Board declared its intention to appropriate the funds necessary for a preliminary planning study by the Department of Public Works, the purpose of such preliminary study being to define the scope and magnitude of the project, to identify and collect all existing relevant information and data, to describe feasible financing plans, and to make possible the setting of a term of years for completing the undergrounding, thus placing this Board and the City in a position to prepare a detailed program of action.

The cost of the Preliminary (Phase I) Study estimated at \$10,000.00, referred to in Resolution No. 406-67, was included in the 1968-69 Budget.

The Study has been started and it is anticipated that results will be available early in 1970 and a summary thereof will be included in the 1970-71 Annual Report.

SOUTHEAST WATER POLLUTION CONTROL PLANT BOOSTER PUMP STATION

Regional Water Pollution Control Board Resolution No. 466 issued in 1963 contained a cease and desist order against the City, charging it with violating standards for Islais Creek waters.

To comply with the order to clean Creek waters, the Booster Pump Station was designed and constructed in 1968-69. This pumping station is located on the banks of Islais Creek at Third Street near the location of the old effluent outfall from the Southeast Plant. The station now enables the plant to discharge its maximum effluent flow of 70mgd at a point 5000 feet away from the end of the Creek proper and at velocities that facilitate mixing with sea water.

The requirements for the new pumping station were as follows:

- a) The pumps must handle all flows up to a maximum of 70mgd at tide levels varying from -4 to -13 feet;
- b) Pumps must start when gravity flow exceeds certain rates depending on the tide level;
- c) Transition from gravity flow to pump flow, from one to two pump operation and vice versa, stopping, starting after power failure and flushing starts must be smooth so as to prevent any water hammer which might damage the pipeline;
- d) Pumping station must be completely automated with built-in systems to warn of unscheduled operations;
- e) Pollution of Creek waters shall be prevented;
- f) The force main shall be flushed with a mixture of salt water and effluent at maximum velocities for approximately 15 minutes at the end of each pumping cycle to prevent buildup of sand at the low point in the force main; and
- g) Velocity control must be provided to maintain proper operation of the siphon which crosses Islais Creek.

To satisfy the above requirements, two vertical turbine type pumps were installed with a total capacity of approximately 50,000 gpm at heads exceeding 40 feet. Each pump is driven by a 300HP vertical motor through a variable speed magnetic coupling. The coordination of pump speeds, level controls, gate controls, valve and flushing controls is effected by automated electronic and hydraulic equipment, all programmed to comply with strict requirements for flow variations and prevent Creek pollution.

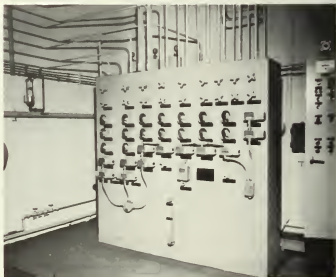
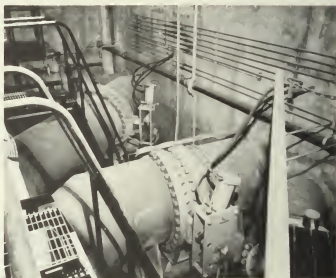
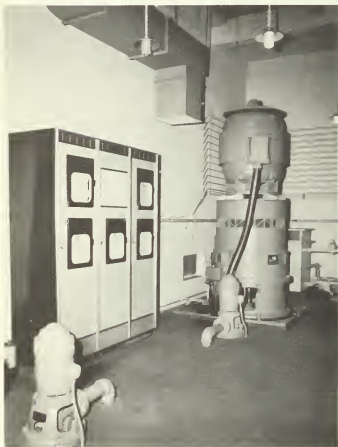
At gravity flow rates when overflow to the Creek is imminent, the first pump will start automatically at minimum speed. The programming of pump start-up, valve opening and gravity gate closing is planned so as to ensure a smooth changeover from gravity to pump flow with minor change in flow rate and without undue stressing of any portion of the manifold and force main. As the flow increases the lead pump will increase in speed from minimum to maximum and further increase in the flow causes the lead pump to slow down and the lag pump to start up. Both pumps will then run at a speed that produces a flow equal to the flow from one pump running at full speed. A further increase in flow will cause both pumps to increase speed in tandem until the station capacity is reached at 70mgd at which point both pumps will be turning at maximum speed. This sequence is reversed as the flow rate subsides. Changes in tide levels at constant or varying flow rates will cause changes similar to those described above. Flushing of the force main will take place automatically at the end of each pumping cycle or by hand control.

Safeguards are installed to prevent unscheduled operations from damaging parts of the installation, such as power failure and automatic restarting after power failure. Telephone lease lines to the Plant transmit warning signals to alert operators of faulty operations. The elaborate safeguard system employed is necessitated by the size and length of the force main and the large masses of water in movement within the system. Any abrupt and uncontrolled change in flow rates and velocities could cause serious damage due to water hammer. The unique system for controlling pump speed, gates and valves as a function of flow, tides and sump level has obviated the need for costly, massive and unsightly surge chambers that have been employed in similar installations in the past.

Final operating tests indicate that the pumping station has satisfied or exceeded all requirements listed above. In addition, visual observation shows a marked improvement in Creek water quality.

The installation shows the feasibility of automating an installation capable of handling flows varying from 7,000gpm to 50,000gpm under both gravity and pumping conditions at constantly changing tide levels.

The pictures below show the vertical drive motors and the manifold and valves in the force main.



STREET LIGHTING

During the past year, the program for improvement of the City's street lighting continued. Contracts were let for the installation of 1115 new street lights. These were financed as follows:

New Underground Districts	323 street lights
Replacements under Bond Issue	792 street lights

TELEVISION TRAFFIC SURVEILLANCE

The Electrical Section of the General Engineering Services Division is now working on the design of a pilot television traffic surveillance unit. This unit which will probably be mounted high over the intersection of Sixth and Mission Streets will relay a television picture of traffic conditions at that location back to a monitor in the Hall of Justice.

The initial design contemplates allowing the police officer monitoring the intersection to assume control of the traffic signals, activate turn prohibitions and make contact with police officers in the field in order to apprehend parking violators during the peak hours.

If this installation proves successful, it will be the forerunner of a system that will cover the downtown area between Tenth and Fremont Streets, and Howard and Sutter Streets. Conventional television cameras capable of zooming, rotating and tilting will be mounted at the street corners. Some may be mounted high on buildings and others may be mounted on 40-foot poles.

There are existing systems of this type in London, England; Sydney, Australia; and Lausanne, Switzerland. It is hoped to have the first unit in operation late this summer.

DIVISION OF SANITARY ENGINEERING

- A. REORGANIZATION - To expedite the pollution control program and to streamline the Bureau of Engineering, the City Engineer established a new Division of Sanitary Engineering which consolidated the Sanitary and Special Projects Section and Sewers Design Section of the Division of Design, and the Side Sewer Section of the Division of Streets and Highways.

This new Division, reporting directly to the City Engineer, was organized into three branches: Planning and Studies, Design and Administrative.

The planning and Studies branch consists of the Hydraulic Section and the Sanitary Section. The Hydraulic Section is responsible for such hydraulic studies as developing the hydraulic portion of the sewer master plan, and providing complicated hydraulic computations for the design sections. Additionally, the section investigates street projects for necessary drainage and sewer work and processes flooding complaints. The Sanitary Section has responsibility for developing alternative schemes to treat and control sewage discharges in order to abate pollution during dry and wet weather periods, and developing the water quality portion of the sewer master plan. In addition, the section reviews all proposed State and Federal water quality objectives and standards and provides liaison with the Bay-Delta Program.

The Design branch consists of three sections: The Sewer Section, Waste Treatment Section, and the Special projects Section. The Sewer Section is responsible for the preliminary and final design of all storm, sanitary and combined sewers including replacements, enlargements and street improvements.

The Waste Treatment Section is responsible for the evaluation of existing water pollution control plan processes, the design of improvements to meet dry weather water quality requirements and for maintaining liaison on design projects let out to private consultants.

The Special Projects Section has the design responsibility for

treatment and control facilities for wet weather sewer overflows and bay and ocean outfalls and for liaison with private consultants on wet weather design projects.

The Administrative Branch is responsible for the general administration of the Division and for such other administrative functions as the initiation of permits, and the review of State and Federal legislation

With regard to the overall responsibility of the Division of Sanitary Engineering within the Bureau of Engineering, the work of the Division can be divided into four basic programs: Dry Weather Pollution Abatement Program, Wet Weather Pollution Abatement Program, Flooding Control and Sewer System Improvement Program, and Miscellaneous Projects.

- B. DRY WEATHER POLLUTION ABATEMENT PROGRAM - The Board of Supervisors adopted a resolution in October of 1968 which, as part of the City's overall pollution control policy, committed the City to attain compliance with all of the Regional Board's dry weather requirements by July 1, 1975.

The dry weather pollution abatement program has as its foremost objective the fulfillment of this commitment and the attainment of compliance with the requirements set by the Regional Water Quality Control Board for each of the City's three water pollution control plants. Under consideration in this program are in-plant improvements, process modifications, alternate effluent disposal locations and possible source control of specific pollutant constituents. The following portions of this program, exclusive of those described elsewhere in this annual report, are now in progress include:

1. Southeast Effluent Sewer Extension; Islais Creek Crossing (P. 41 1967-68 Annual Report):

This contract was completed with a final contract cost of \$659,973.69 including extras. As noted in the previous year's annual report, this contract encountered many difficulties mainly due to the unusual conditions encountered with respect to the bay bottom. With the completion of this portion of the

southeast Effluent Sewer Extension, the flow from the treatment plant was diverted from the Islais Creek discharge location to a location about 800 feet east of the Army Street Terminal. This represented the final contract for the \$2.6 million effluent extension system project for the Southeast Water Pollution Control Plant.

2. Southeast Effluent Sewer Extension, Diffuser System; Post-Construction Evaluation:

When the effluent extension system was put into operation, an evaluation of its functioning was begun and discoloration in the receiving water was observed at certain times of day. Investigations to determine the cause of this malfunctioning are now in progress.

3. Southeast Water Pollution Control Plant; Gas Recirculation Systems and Related Work (Digestors No. 8 and 9) p. 38 & 39 1967-68 Annual Report:

During 1967-68, a plastic five foot diameter scale model to represent the digestors at the Southeast Water Pollution Control Plant was assembled to study grit movement and deposition in the digestors. The aim of the study was to collect data for preventing the progressive diminution of the active digestion space due to the information of large deposits of scum and sludge-grit masses. These masses also cause damage to the internal structures and pose the additional problem of cleaning and ultimate disposal. Improvements incorporated in the contracts now in progress for the renovation of digestors 8 and 9 (see p. 38, 1967-68 Annual Report) that may be ascribed to the results of the model study include a center feed system hopper removal for grit, and peripheral hydraulic sluice points around the bottom of the digester for facilitating grit movement to the removal hopper.

4. Richmond Sunset Water Pollution Control Plant; Reconstruction of the Headworks Facilities (p. 39-40, 1969-68 Annual Report): The contract for this project, described in the previous year's annual report, was awarded for \$736,319.00.

5. Southeast Water Pollution Control Plant: Sludge Filtration System improvements (P. 38, 1957-68 Annual Report): The contract for this project, described in the previous year's annual report was awarded for \$318,000.00.
6. Southeast Water Pollution Control Plant; Improvements to Macroscopic Removal Facilities:

One of the major problems that all of the City's water pollution control plants must resolve with regard to compliance with the requirements of the Regional Board is that of the control of floating, suspended, and settleable macroscopic particulate matter. This project, which is now under design, is intended to provide improvements to two of the four sedimentation tanks at the Southeast plant and to also serve to test the efficacy of some demonstration features incorporated in the design.

Design features include influent channel controls for precise, equal flow distribution, parshall flumes for flash mixing, air agitation for flocculation, automatic control for feeding polyelectrolyte and other chemicals; hydraulic variable speed drive system for centralized control of sludge and scum removal, mid-tank sludge collection, submerged effluent collection and air spraying for better floatable matter removal.

A post-construction evaluation will include the testing of the effects of chemical addition upon primary treatment efficiency, including solids removal, turbidity reduction and color removal. Manpower and maintenance requirements will also be evaluated consequent to the relocation of the sludge scrapers and the use of excess water to entrain sewage and sludge for transport. Upon completion of the evaluation, similar modifications are planned for the remaining two sedimentation tanks at the Southeast plant and at other treatment plants.

7. Liquid Chlorine - Sodium Hypochlorite Study; (p. 37, 1967-68 Annual Report):

As a continuation of the study regarding the hazards of liquid chlorine and the feasibility of utilizing sodium hypochlorite as disinfectant in place of liquid chlorine, a study is in progress

t to determine the costs and feasibility of converting to the use of sodium hypochlorite. This study will be the basis for an important decision possibly leading to the elimination of the use of liquid chlorine, an economical but hazardous disinfectant. It is expected that the use of sodium hypochlorite in place of liquid chlorine will entail increased annual operating costs.

8. Pilot Sewage Treatment Plant:

A mobile small scale sewage treatment plant is under design and is intended for use in making experimental tests of proposed methods and techniques of waste treatment. The use of this unit will more closely simulate the results of treatment processes in a full scale treatment plant. This proposed pilot plant would be portable and adaptable for use in conjunction with any of the City's three water pollution control plants. Its construction costs has been estimated at \$12,000.

9. Alternate Methods of Effluent Disposal:

This preliminary study, undertaken by the Consulting firm of Brown and Caldwell, was concluded this year with a report on a long-range program for disposal of the City's dry weather sewage flows. Seven technically feasible schemes, each capable of meeting the present requirements and stated water quality objective of the Regional Board, were developed and analyzed for cost.

The report recommended that "the City's long-range plans for disposal of dry weather sewage flow be based on the continued use of the existing treatment plants and the deepwater discharge of primary effluent." A four stage program was presented which recommended the construction of submarine outfalls adjacent to the North Point and Richmond-Sunset plants as the first stage. Subsequent stages involved respectively the extension of the existing Southeast outfall, the exportation of the Southeast effluent to an ocean outfall, and the exportation of the Northpoint effluent to an ocean outfall. The first stage is required to correct existing discharge violations and subsequent stages are to be undertaken if the need becomes apparent. To the above costs must be added the

costs of such in-plant improvements as may be necessary to up-grade the primary effluent discharges. In this regard, the report also recommended that the use of chemical treatment plants. It was also recommended that a study program be undertaken to evaluate the oceanographic and biological characteristics of the recommended deep water disposal site areas to verify their suitability and to collect the information required for design.

10. Bay Ocean Effluent Disposal Study:

As a result of the study described above, a detailed study was initiated to evaluate sites for submarine outfalls in the area between Lincoln Way extended on the West and Bay Street extended on the East. The sites are to be selected and evaluated for both the dry weather flow and wet weather flow from the Richmond-Sunset and North Point Water Pollution Control Plants. Preliminary designs will be developed for the sites selected. Additional information will be developed for the schematic design of control facilities for wet weather overflows within the study area. The firm of Brown and Caldwell was retained to carry out this project. The City has requested representatives of the state and regional boards to participate in this study in view of the ecological importance of the Gulf of the Farallones.

11. Log Cabin Ranch School; Addition to Sewage Treatment Plant for Junior Facility (Located in San Mateo County); P, 40, 1967-68 Annual Report):

As a result of Federal Grant funding, \$28,000 was made avail during this year for further improvements to this facility. The improvements now under design entail adding a new building to replace the existing inadequate control shed and installing a chlorine contact tank to improve the efficiency of the waste water chlorination. The estimated contract cost for this project addition is \$21,500.

12. County Jail No. 2: Sewage Disposal System (p. 37, 1967-68 Annual Report):

As a result of the study on alternate methods of sewage

disposal, \$26, 000 was budgeted for the development of plan and specifications for implementing the recommended plan for pumping the sewage to the North San Mateo County Sanitary District for treatment and disposal.

- C. WET WEATHER POLLUTION ABATEMENT PROGRAM - By resolution of the Board of Supervisors, the City is committed to meet all of the Wet Weather requirements prescribed by the Regional Board westerly of Pier 45 (Fisherman's Wharf) by July 1, 1981, and easterly of Pier 45 at a date to be established as the need arises and when mutually agreed upon by the Board of Supervisors and the Regional Water Quality Control Board. A preliminary estimate of the cost to accomplish this entire task is between \$100 million and \$200 million. This program involves studies regarding the transport, storage, and treatment of combined sewer overflows to determine the combinations best suited for the different wet weather outfalls around the periphery of the City as necessary to meet the requirements of the Regional Board. Ultimately these studies will lead to designs and contracts for the construction of the necessary wet weather control facilities.

Also being considered at this time, is the development of an extensive mathematical model of the City's sewerage system to aid in the development and final evaluation of the alternative wet weather control systems. The following portions of this program are now in progress:

1. Baker Street Air Flotation Facility (p. 36; 1967-68 Annual Report):

The design of the proposed Baker Street Outfall Dissolved Air Flotation Facility commenced in January of 1969. The consulting firm of Engineering Science, Inc. was retained to prepare plans and specifications and to conduct the associated evaluations. Under the general direction of Bureau of Engineering, design was progressed in an orderly fashion.

It is contemplated that the facility will be operational during the 1970-71 rainy season. The latest contract cost

estimate is approximately \$2 million and is to be partially financed by a \$921,000 Federal Government Facilities Demonstration Grant. The purpose of the proposed facility is to demonstrate the applicability of this process to the treatment of combined sewage and storm water overflow. In this case, the overflow will emanate from the 190 acres tributary to the Baker Street Outfall.

The features of the proposed facility designed to accommodate a flow rate of 24 million gallons per day, will include:

- a. Dissolved air flotation - to remove both particulate and liquid floatables found in combined sewer overflows.
- b. Sedimentation - to reduce the quantity of materials which cause the accumulation of sludge deposits in receiving waters.
- c. Chlorination - to disinfect the overflows.
- d. Chemical flocculants - to further improve the quality of the final discharge and allow an increase in the treatment rate.

Approval of the following agencies has been secured for the construction of the proposed facility:

San Francisco Planning Commission
San Francisco Art Commission (with commendation
for excellence of design)
San Francisco Bay Conservation and Development
Commission
U. S. Army Corps of Engineers
State of California Division of Industrial Safety
State of California Department of Harbors and Water-
craft
San Francisco Recreation and Park Commission
State of California Department of Water Resources
United State Department of Interior - Federal Water-
Pollution Control Administration

The pre-evaluation studies for this project began in January 1969 with a total budget of \$137,000. This task is a continuation of the monitoring of combined sewer overflows and characterizing the pollutant loading discharged from different land use areas during storms. Additionally, the receiving waters contiguous to the Baker Street outfall site are being monitored to provide both wet and dry weather water quality background information. The post-evaluation studies for which \$138,000 is budgeted, and which will begin upon completion of the facility construction, will concentrate on determining the efficiency of the facility under varying conditions of flow and with and without the use of chemicals and on quantifying the impact of the treatment unit upon the receiving waters. All of the information developed in the pre-evaluation and post-evaluation studies will be used in evaluating the performance of the dissolved air flotation process and its feasibility for use in the control of combined sewer overflows from other land use areas.

2. Combined Sewer Overflow and System Monitoring Instrumentation:

This is one of our many sub-studies directed towards development of a Citywide Sewer Master Plan for the solution of our wet weather and to some extent the inter-related dry weather pollution problems. The subject study involves the evaluation of the combined sanitary sewage and storm water volumes rates and qualities as discharged. The ultimate control system will probably involve continuous monitoring of these discharges at selected locations. Sufficient permanent monitoring stations would be designed at the overflow points as well as at selected upstream sites throughout the City of facilitate the Master Plan development and to provide the first stage of the ultimate control system monitoring.

3. Feasibility of Treatment of Overflows From combined Sewers (P. 36, 1967-68 Annual Report):

At the completion of this \$99,820 Federal Research Grant

Project, there remained \$13,020 of unexpended funds. Approval of the Federal Water Pollution Control Administration was obtained and the funds utilized for purchasing and equipping a 22-foot trailer that would serve as a mobile sampling station with semi-automatic sampling capability.

4. Shoreline Retention Basin Study; (p. 37; 1967-68 Annual Report):

Preliminary engineering is in progress on this project. A significant feature of this study is the development of storm hydrographs for 1/4 year, 1 year and 5-year recurrence intervals with the determining variable under consideration being volume of flow, not rate of flow. In this manner, basins may be sized for overflow occurrences of four times per year, once per year or once every five years. Cost estimates and preliminary sizes are not yet available for these systems.

5. Outfall Consolidation Study:

A feasibility study was initiated to investigate the feasibility and cost of consolidating various sewer outfalls in the City. The main concern will be to establish the least number of outfalls that may be economically used and located to cause the least pollution impact upon the Bay and Ocean. Consideration is being given to the use of outfalls for both wet and dry weather flows. As a consequence of this study, systems for re-routing storm flows will also be developed.

6. Catchbasin Study:

A study has been initiated to evaluate the performance of catchbasins which retain the solids washed off the streets and prevent their deposition into the sewers. The City has about 25,000 of these structures incorporated in its sewerage system. There is some evidence that portions of the stored material in these basins is disgorged into the system during storms, adding to our wet weather

pollution problem. The study will decide on the remedial measures necessary including the possible discontinuation of the use of these catch basins. In the interim period, most new construction will incorporate the use of storm water inlets.

D. FLOODING CONTROL AND SEWER IMPROVEMENT PROGRAM - The Flooding Control and Sewer Improvement Program includes engineering studies and design to alleviate flooding within the City by increasing the size of inadequate sewers, reconstructing sewers, constructing sewers where none exist, and modernizing pumping stations and force mains. During this year, the following design projects and studies were in progress:

1. Sewer Projects; Design Completed During Fiscal Year 1968-69:

During this year, plans and specifications for sewer construction with an approximate contract value of \$3.6 million were completed. Of this \$3.6 million, \$854,000 was related to projects combined with streets and Highways Projects.

2. Sewer Projects; Under Design During 1968-69:

Approximately \$6.6 million of contracts were under design but not completed during this fiscal year. Considerable effort was spent on the BARTD projects and the Market Street Reconstruction. Projects under design were as follows:

	Approx. Cost (Estimated)
1. Market St. Reconstruction	\$ 1,000,000
2. BARTD Outer Market	2,500,000 *
3. San Francisco Zoo	250,000
4. Lyndhurst Auxiliary Sewer	192,000
5. Army Auxiliary Section A-2	800,000
6. Ocean Avenue Sewer	216,000
7. Ridgewood-Hearst	550,000
8. Division St. Auxiliary Sec. "A"	461,000
9. Cayuga Aux. Sec. I	330,000
10. Misc. Sewer & Street Projects	343,000
Total Projects Under Design (Not Completed)	\$6,642,000

* Not Financed by City Funds

3. Sewer Inspection Methods Study:

The method and frequency of inspecting sewers was investigated this year in an effort to optimize the benefits to planning and design derived from such inspection. Of the 870 miles of conduits within the sewerage collection system, 720 miles are of 30 inch diameter and less and are inaccessible to direct inspection. Of the sewers less than 30 inch diameter 80% are over 30 years old and 330 miles of them were built prior to 1904. The City annually inspects about 3 miles of sewers by photography. Consideration is being given to increasing the photographic inspection of these small sewers to 50 miles per year to maintain a complete inspection cycle of once every 20 years and that the City purchase its own T. V. Equipment to carry this out.

4. 43rd Avenue Drainage District Study:

This study was initiated to resolve flooding problems that exist along 43rd Avenue between Lincoln Way and Judah Street on one of the major trunk lines in the City's sewerage system. Alternative solutions are being developed including pressurizing the flow from the upper reaches of the drainage districts.

E. MISCELLANEOUS PROJECTS - In addition to the major study and design programs, the Division performs many of the ancillary functions associated with the water pollution control programs and other environmental control problems. This includes reviewing and commenting on all related legislation, handling permits, initiating resolutions and ordinances, applying for Federal funding and such special projects as are within the technical purview of the Division. The following tasks fall into this category:

1. Public Law 660, Construction Grants (Amounts Indicated: 30% of Project Cost):

During fiscal year 1968-69, applications totaling \$285,000 were submitted for construction grants for two sewage treatment works projects. These two projects were

approved in the State Water Resources Control Board's 1969-70 priority list.

Three projects totaling \$222,000 qualified to be carried over from the 1968-69 list, and grant increases in the amount of \$419,800, for two 1967-68 list projects were approved by the State Water Resources Control Board.

Final Payment in the amount of \$28,060 was received by the City for the Log Cabin Ranch Addition to Sewage Treatment Plant for Junior Facility Project, a 1967-68 Reimbursable Project. Final payment Inspection was made by the Federal Water Pollution Control Administration and a Grant offer in the amount of \$180,170 was accepted by the City for the Bancroft-Griffith Interceptor Sewers Project, a 1967-68 Reimbursable Project. (Payment scheduled in early 1969-70).

2. State and Federal Legislative Review: A substantial effort was devoted to reviewing and commenting on State and Federal Legislation. Over 20 proposed bills were reviewed. Of particular importance were the new Water Quality Control Act, AB 413, which was enacted into law; the Regional Government Bill introduced by Assemblyman John Knox, AB 711, which did not get out of committee; and the many bills from which evolved the San Francisco Bay Conservation and Development Commission legislation, recently passed and signed into law. These efforts resulted in many revisions to the proposed Bills that, as originally written would have had serious effects on the City and County of San Francisco.

The most significant legislation enacted into law this year with regard to Water Pollution Control, was the new Water Quality Control Act known as the Porter-Cologne Act (Effective January 1, 1970). This Act greatly strengthened the powers of the Regional Boards to abate Water pollution. In particular, the powers to initiate action to stop new building permits and to impose a \$6,000 per day fine for violation of a cease and desist order, are of importance.

3. Review and Liaison; State Water Resources Control Board and Regional Water Quality Control Board:

As a standard procedure, all actions of the State Water Resources Control Board and the San Francisco Bay Regional Water Quality Board which could directly or indirectly affect this City, are carefully reviewed and studied.

In the month of July 1968, we presented a report to the Regional Board delineating the status of water pollution problems involving this City. The report detailed the areas of non-compliance with the Regional Board's present and contemplated future dry weather requirements. Also explained therein was the City's 20 year program aimed at abating the wet weather pollution problems. The report was carefully reviewed by the Board, and discussions involving our wet weather schedules are still in progress. It is probable that final agreement in this regard will be held in abeyance until August 1971, when the City will have completed a Master plan Study aimed at solution of these problems.

This year a careful study of the new tentative requirements for discharges from our North Point and Southeast Water Pollution Control Plants resulted at our request in some modifications thereto, by the Regional Water Quality Control Board. Further, the Regional Board's tentative requirements involving wet weather overflows from our North Point Drainage District were reviewed and discussed with the Board. Final action in this regard has been deferred pending further study of these matters by both parties.

A feature of very vital significance with regard to water quality control this year, was the completion and submission to the State Water Resources Control Board, of a report entitled "San Francisco Bay-Delta Water Quality Control Program." This was the culmination of a three-year three million dollar study by a group of consulting firms headed by Kaiser Engineers, and involved the water

quality control problems of San Francisco Bay and the Sacramento-San Joaquin Delta Area. The report recommended formation of a regional agency to plan, design, construct and operate a comprehensive water pollution and water quality control system for the twelve counties that comprise the Bay-Delta area. Such a regional system was estimated to have a capital cost of \$2.5 billion over the period from 1970 to 2020 and an average annual operating cost of \$36 million, both costs being in 1969 dollars. The program was evaluated with respect to objectives and costs to the City and County of San Francisco. The costs were then compared to the costs to this City to independently resolve its water pollution problems.

In-depth review of the Kaiser Report showed an estimated total capital cost to the City of \$245 million (1969 dollars) over the 1970 to 2020 period as its share of the cost of the plant and collecting sewers for the treatment of dry weather flow only. In addition, the estimated average annual operation and maintenance costs to the City for the same period was \$3.4 million (1969 dollars). Similar estimates adding the City's wet weather flow to the regional system resulted in a total capital cost to the City of \$398 million (1969 dollars) and an average annual operation and maintenance cost of \$4.7 million (1969 dollars).

These costs to participate in the regional system were compared to the estimated total capital costs to the City of \$50 million (1969 dollars) with an average annual operating cost of \$3.7 million (1969 dollars) for the equivalent dry-weather facilities and a total capital cost of \$50 million (1969 dollars) with an average annual operating cost of \$5.1 million (1969 dollars) for the equivalent wet-weather facilities. Neither of the wet weather solutions compared includes the cost to the City of such additional combined sewage storage facilities as may be necessary (estimated at a minimum of \$100 million).

As a result of these inordinately high costs under the cost allocations proposed in the report, testimony was presented before the Bay-Delta Board of Consultants and

members of the State Water Resources Control Board in May 1968. In this testimony it was stated that based on the proposed cost allocation of the Kaiser report, it would not be to the City's advantage to participate in the regional system but to solve its problem independently. Further it was pointed out that since we are at the upper end of a portion of the system, there would be no harm to the overall plan if San Francisco were to continue to treat its wastes separately. It is expected that discussions will proceed with the various involved State groups during the next fiscal year regarding modification of their plan. Also, further detailed oceanographic and ecologic studies will be undertaken by the City regarding the continued disposal of wastes in San Francisco Bay or the Gulf of the Farallones area.

4. Initiation of Permits, Resolutions, and Ordinances:

As a result of the review and liaison described above, several resolutions were presented to the Board of Supervisors for policy consideration. The most important of these related to the scheduling of the City's commitments to complying with the requirements of the Regional Water Quality Control Board.

Subsequent to the presentation of the status report on water pollution control to the Regional Board, we presented to our Board of Supervisors a far-reaching policy solution which was adopted in October and committed the City to attain compliance with all of the dry-weather pollution facilities for compliance westerly of Pier 45 by July 1, 1981, and to construct all facilities east of Pier 45 for wet weather requirements as the need arose and when mutually agreed upon by the Board of Supervisors and the Regional Water Quality Control Board.

The City estimated that the cost of these three programs in 1968 dollars, exclusive of bonding costs, would be \$35 million, \$45 million and \$50 million, respectively. In addition to this, the cost of improving and reconstructing the existing sewage collection system was estimated to be

\$4 million per year for the next 20 years.

Another important resolution presented to the Board of Supervisors involved the position of the City with regard to regional sewage disposal. The Board adopted a resolution stating that the City would explore and pursue all economically feasible methods of meeting Federal and State water quality standards, including the regional concepts, to provide water quality meeting all applicable standards at the lowest cost to the residents of San Francisco.

5. Log Cabin Ranch; Water Treatment System:

During the summer of this year, the water system at the Log Cabin Boys Ranch, which has Mindego Creek, a surface source, as its water supply, began to show high coliform bacteria concentrations. As a result of these high coliform counts, a public health emergency was declared and a study was undertaken by this Division to develop the necessary remedial measures. Alternatives evaluated included the purchase of a package water treatment plant, exploring of alternate sources of water supply, and alterations and improvements to the existing supply system. Upon completion of the study, an emergency contract, the first phase budgeted at \$5500, was awarded, and involved the installation of a gas chlorination system and the conversion of one of the supply tanks into a sedimentation and chlorine contact tank. Additionally, all three tanks were re-roofed and the water supply system was flushed and disinfected. A second phase estimated to cost an addition \$18,000 is as yet to be implemented and would involve investigations for a different (subsurface) water supply source to either replace or augment the present surface supply, and the installation of a water filtration system.

At the completion of the first phase of this work, the bacterial concentrations in the system were reduced to acceptable levels. However, it is felt that the second phase is necessary to assure a secure water supply system at this installation.

DIVISION OF
TRAFFIC ENGINEERING

New Traffic Sign Shop

Two years ago, the California State Automobile Association, our contractor for installing traffic signs, informed the City that they were going to drop the traffic sign maintenance and installation programs that they had carried on for many decades for northern California cities. This concluded a long and amicable arrangement that had existed between the City and the Association. The Division of Traffic Engineering made arrangements to take over this program and in May 1969 we moved into our new traffic sign shop at 461 Valencia Street. The quarters, which are rented, contain 5,000 square feet of space at the street level and 3,000 square feet in the basement. In the take-over process, the Division hired the three traffic sign men originally employed by the Automobile Association, and in a consolidation move, the two men who maintained and repaired our street name signs were also moved to 461 Valencia Street. The change-over was accomplished with only minor problems and the new organization is functioning smoothly and effectively.



Cable Car Accident Study

This office recently completed a comprehensive study of accidents involving cable cars and motor vehicles for the years 1965-66-67. The study showed that cable cars had a very high accident rate of 905 accidents per million vehicle miles of travel which is almost five times as high as the Municipal Railway System as a whole. To alleviate this situation, the report recommended a three-pronged program aimed at driving improvement (both gripmen and motorists), the cable car operating system and roadway conditions. From the driver point of view, it was recommended that gripmen be better trained and that the motoring public, especially visitors to the City, be subjected to a publicity campaign to acquaint them with cable car operating characteristics and limitations. From the operating system, it was recommended that research be undertaken to improve cable car braking and lighting systems. As to roadway conditions, a program calling for installation of traffic signals, street lights, traffic signs and some roadway widening was recommended. If adopted this program should go far toward making the cable car system safer.



Research Project

As mentioned in the 1967-68 Annual Report, the Department of Public Works was cooperating with the joint venture group of Wilbur Smith and Associates and Stanford Research Institute in a federally funded research study which aimed at deriving a method of predicting the effect on traffic patterns of changes in the street control system. The study was completed this year.

The Dynamic Highway Transportation Model (DHTM) that was developed functioned reasonably well and simulated traffic conditions with a fair degree of accuracy. An interesting by product of the study was the development by the Stanford Research Institute of computer-television methods of analyzing and displaying study data graphically.

Seventh Avenue and Lincoln Way Channelization

The photographs show the new channelization at the intersection of Seventh Avenue and Lincoln Way. This project, which involved cutting back the sidewalks, installing left turn channelization and adding a signal at the intersection of Sixth Avenue and Lincoln Way at a cost of \$89,000.00.

Demands from the public for the protection of the left turn movement from westbound Lincoln Way onto southbound Seventh Avenue plus the decision to develop Sixth and Seventh Avenues as main north-south routes in this corridor were generating factors for this project. A unique feature is the provision of a protected left turn phase at the intersection of Seventh and Lincoln Way, but with the retention of two-phase signal operation. Traffic phasing is shown on the accompanying diagram. The three-phase operation was avoided by cutting off the through movement on Seventh Avenue. This fit in well with our planning concepts since it is eventually planned to develop Seventh Avenue as a southbound one-way street and Sixth Avenue as a companion northbound street. STOP sign control was placed all along Sixth Avenue south of Lincoln Way in order to attract northbound traffic from Seventh Avenue.

Before and after checks in the peak hours show that the changes have been very successful in reducing vehicular delay. In the P. M.

peak, system delay was reduced 16 per cent and in the A.M. peak the drop was 31 per cent. These percentages are translated into a savings of 130 vehicle hours daily, which is worth \$110,000 annually. In addition, there are large savings to off-peak motorists which have not been evaluated.

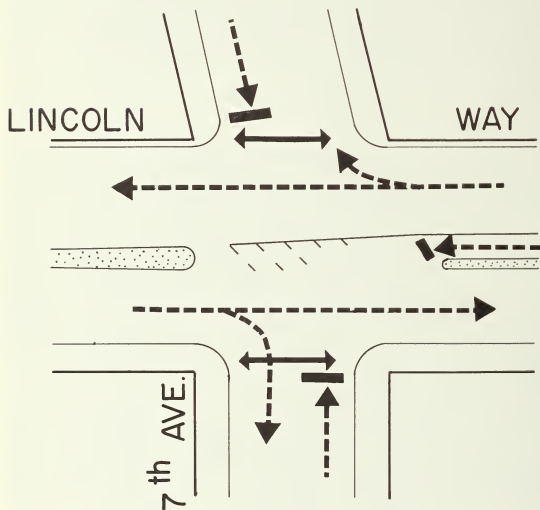


Lincoln Way at 7th Ave. Left Turn Channelization






7th Ave. south of Lincoln Way Offset Lanes

7TH AVE. & SIGNAL



Phase I

-  Vehicular Movement
 Vehicular Movement Stopped
 Pedestrian Movement

Army Street Circle

The first construction phase of the Army Street Circle is now nearing completion. A rather novel traffic routing operation was installed on the Bayshore Boulevard as part of this phase of work. In order to construct the southbound overpass it was necessary to close the Army Street on- and off-ramps for southbound traffic on the James Lick Freeway. This closing put a great surcharge of southbound traffic on the parallel Bayshore Boulevard route.

To accommodate this traffic, it was necessary to modify traffic controls at the intersections of Bayshore Boulevard and Oakdale Avenue, and Bayshore Boulevard and Cortland Avenue, and eliminate the three-phase signal operation for southbound traffic at these intersections. This was easily accomplished at the Oakdale Avenue Intersection but a more difficult problem occurred at the Cortland Avenue location. The left turn movement is about the only way traffic approaching from the south can get into the Bernal Heights area. This left turn movement had a separate signal phase. The way this movement was accommodated was to let the left turn take place as a "U" turn south of the intersection. With this arrangement the Cortland Avenue intersection could operate as a two-phase signal. The accompanying photographs show the treatment. It works quite well.



Bayshore north of Cortland
the substitute "U" turn



Bayshore & Cortland
Prohibited Left Turn

Miscellaneous Investigations

	Number of Investigations Made
Written Reports to San Francisco Parking Authority	35
Parking Checks	17
Advisory Appearance and Conferences with San Francisco Parking Authority	35
Formal STOP and YIELD Sign Investigations	119
Formal Parking Control Investigations	92
Formal Traffic Signal Investigations	61
Other Formal Investigations	696

Traffic Legislation

	Completed 1968-69	Deleted 1968-69	Number In Place 1968-69
Stop Intersections	77	3	2,038
Yield Intersections	0	1	18
Through Streets, Miles	0.4	0	103.5
One-Way Streets, Miles	1.2	0.1	80.6
Speed Zones (other than 25)	0	0	66.4
Turn Restrictions (24 hours)	6	0	
Turn Restrictions (Peak Hours)	4	0	
Towaway, Block Faces	23	1	
Time Limit: Block Faces	22	6	
Angle Parking: Block Faces	7	15	
Other Turn Controls	13	0	
No Parking Any Time:			
Block Faces	16	2	
Items discussed at ISCOTT	746		
Items having Department Public Hearing	68		
Items to Board of Supervisors for Action	137		
Items handled under Sec. 33.1 *	53		

* Sec. 33.1 of the Traffic Code empowers the Director of Public Works to institute temporary traffic regulations to promote flow of traffic around street obstructions caused by construction.

Pavement Painting

Completed

Standard Striping, Miles	416.7
12-Inch Stripes, Feet	622,372
12-Inch Yellow Stripes, Feet (School Crosswalks)	206,751
Bus Zones, Feet	135,612
Parking Stall (all types)	2,760
New School Intersections	1
Total School Intersection in Place June 30, 1969	949
Pounds of Reflective Beads Used	40,025
9" Stripes, Feet	46,847
Railroad Crossings, Feet	8,204

Traffic and Street Name SignsCompleted
1968-69

Traffic Signs	
Parking Signs Installed	521
Parking Signs Repaired or Changed	693
Parking Signs Removed	175
Other Signs Installed	612
Other Signs Repaired or Changed	973
Other Signs Removed	233
Stop Signs Installed	151
Stop Signs Repaired or Changed	293
Stop Signs Removed	9
Total	3,660

Estimated Approximate Cost 1968-69	\$58,160
Estimated Total Number in Place June 30, 1969	36,800

Street Name Signs	
Street Signs Repaired or Changed	963
Street Signs Installed	33
Total	996

Estimated Approximate Cost 1968-69	\$37,000
Estimated Total Number in Place June 30, 1969	5,800

Parking Meters

New or Amended Zones	10
New Installations	690
New Installations in Public Parking Lots	76
Removals	293
Installations	426
Relocations	27
Temporary Removals	216
Installations in Progress (Posts Installed)	243
Total Number in Place June 30, 1969	13, 236

The above table does not include the normal maintenance of parking meters performed by the Department of Electricity.

Traffic Signals and Channelization

	Completed 1968-69	Number In Place 6-30-69
Channelized Intersections		
Concrete Islands	7	262
Raised Pavement Bars	2	50
Total	9	312
Signalized Intersections		
3-Light Installations	11	765
Removals	4	
Equipped with Pedestrian Signals	13	235
Actuated Signals	4	181
Pedestrian Overpasses (over City streets)		15

BART Construction

In addition to 14 contracts previously awarded and presently under construction, 4 additional contracts were awarded this year. Additional traffic restrictions in the Market Street area were extended easterly to Steuart Street with work progressing on the Embarcadero Station on Market Street between First and Spear Streets.

Municipal Railway bus operations alone are permitted in this newest station construction area and are now maintained along with pedestrians on what was sidewalk areas on Market Street.

Contracts now under way on Mission Street are progressing to completion. One contract, the crossover structure between the 16th Street and 24th Street Stations, has developed to the point where restoration of the surface areas has begun, thus requiring closure of Mission Street to through vehicular traffic at either side of 23rd Street. One-way traffic operation on 21st and 24th Streets was required for detour routing in this area and 15th, 23rd, 25th and 26th have continued as one-way streets for these purposes.

A contract near the southern end of the system was begun which includes construction of aerial structures near San Jose Avenue and Alemany Boulevard.

Some 70 traffic plans were submitted for approval during the year, requiring about 65 letters to be answered. Also 81 Special Traffic Permits were issued for work being done in the Downtown Area. Many meetings with contractors and utility companies were necessary in negotiating many such permits. 25 Department of Public Works Orders initiated legislation required for traffic pattern changes related to BART construction during the year.



BART Construction on
Lower Market Street



DIVISION OF SURVEYS AND MAPPING
SUBDIVISIONS AND STREET CHANGES
TABLE 1-A

CONDOMINIUM MAPS APPROVED AND RECORDED

Map of Brook Apartment

PARCEL MAPS APPROVED AND RECORDED:

Portion of Assesor's Block 2638

Gold Mine Hill Homes - Unit No. 2

Lots 11-16, portion of lots 17 & 18, Block 12 - Flint Tract

Portion of lots 19-27, Block J - Columbia Heights

RECORD OF SURVEY MAPS EXAMINED AND RECORDED:

Portion of Block 19 - Mkt. Street Homestead Association

Portion of 100 Vara Block 374

STREET DEDICATION MAPS APPROVED AND RECORDED:

San Jose Avenue between Lake View and Mt Vernon Avenues.

Lyell Street and Bosworth Street at San Jose Avenue

San Jose Avenue between Diamont and Dolores Streets

San Jose Avenue between Pilgram Avenue and Tingley Street

John Muir Drive between Skyline Blvd. and Lake Merced Blvd

Lake Merced Blvd. between Skyline Blvd. and the County line

Sunset Blvd. Southerly of Sloat Blvd.

Washington Street East of Kearney Street

San Jose Avenue between Sadowa and Broad Streets

STREET VACATIONS APPROVED:

Emma Street East of Stockton Street

Gaines Street South of Union Street

Van Dyke Avenue between Hawes and Griffith Streets

Clay Street between Buchanan and Webster Streets

Portions of certain streets in Bernal Heights

Grove Street between Stanyan and Shrader Streets

Portions of Rankin Street, Galvez and Innes Avenues

Niagara Avenue westerly of San Jose Avenue

STREET VACATIONS APPROVED: (Continued)

26th Street between Harrison and Treat Streets
York Street between Alameda and 15th Streets
Baldwin Court northwest of Folsom Street

CHANGES IN OFFICIAL WIDTHS OF SIDEWALKS:

Monterey Blvd. between Junipero Serra Blvd. and its Easterly terminus
Chenery Street between Elk and 30th Streets
Grant Avenue between Bush Street and 47.67 feet northerly
Beale Street between Market Street and 290 feet southerly
Mission Street East and West of 3rd Street

STREET NAME CHANGES:

Northerly Extension of 5th Street named 5th Street North

DIVISION OF SURVEYS AND MAPPING
FIELD SURVEYS

TABLE 1-B

NUMBER OF SURVEYS

A total of 284 field surveys, undertaken and completed by the six survey parties of the Division's Field Engineering Section, comprised the following:

Public Improvement Surveys for:

Public Assessments and Private Contracts	13
Contracts Financed by City	271

Site and Lot Location and Topographic Surveys for:

Bureau of Architecture	9
Recreation and Park Department	13

Survey fees received by the City for Public Assessment and Private Contracts totaled \$11,375

EXTENT OF SURVEYS

The aggregate length of field surveys completed totaled 131.5 miles, in addition to which 34.4 acres in topographic surveys were completed. The aggregate length, which was the sum of the various construction project lengths, comprised the following:

Design, cross sections:

Streets, sewer and drainage	1.9 Miles
---------------------------------------	-----------

Construction, line and grade:

Sewage and drainage systems	7.0 Miles
Street grading	2.0 Miles
Pavements and curbs	2.3 Miles

Reconstruction, line and grade and cross sections:

Pavements and curbs	14.7 Miles
-------------------------------	------------

Block, Site and Lot surveys:

Lot (boundary lengths)	8.1 Miles
Block resurveys (frontage lengths)	0 Miles
Reference Surveyor's marks (frontage lengths)..	0.2 Miles

Post-construction examination of:

Street grading.....	1.5 Miles
Sewer and drainage systems	0.8 Miles
Pavements and curbs.....	1.3 Miles

Miscellaneous surveys (not included above)..... 3.2 Miles

Monument Lines checked

19.7 Miles

Monument Lines set (new)

51.0 Miles

Subsidence areas.....

15.7 Miles

Slide areas

2.1 Miles

In addition to the aforementioned checking of existing monument lines, 6 survey monuments were set or reset; 155 monuments were examined, repaired, or referenced.

Precise level bench marks were established and elevations on existing bench marks checked at 341 intersections, which required the running of approximately 60.0 miles of precise level networks.

DIVISION OF SURVEYS AND MAPPING
MISCELLANEOUS SURVEYS AND STUDIES

TABLE 1-C

SURVEY PLATS PREPARED:

City College of San Francisco Student Union Bldg.			Topographic Survey
John McLaren Park Golf Course Parking Area		"	"
John McLaren Park Amphitheater Area		"	"
John McLaren Park Amphitheater Area		"	"
Army Street Circle		"	"
Eugenia Avenue - East of Prentiss Street		"	"
City College of San Francisco Creative Arts Extension		"	"
City College of San Francisco Portable Classroom		"	"
Potrero Hill Playground		"	"
Baker Street Air Flotation Plant	Boundary and	"	"
McKinley Square	" "	"	"
Garfield Square	" "	"	"

OTHER MISCELLANEOUS STUDIES:

More than fifty (50) miscellaneous drawings were prepared in connection with property acquisitions and dispositions; street open-

ings, widenings, and vacations; and easement acquisitions and abandonments.

More than eighteen (18) reports regarding City interest in actions to quiet title were made to the City Attorney's office.

Ninety (90) descriptions for deeds to and from the City involving the Department of Public Works were checked.

Nine (9) appeals from decisions of the City Planning Commission were checked to determine whether the signatures thereon represented at least twenty percent (20%) of the property owners within a radius of 300 feet of the property involved so as to qualify the appeals for consideration by the Board of Supervisors.

SUPERVISORY PERSONNEL
AS OF JUNE 30, 1969

Robert C. Levy, City Engineer
Ross T. Shoaf, Assistant City Engineer

<u>Division and Section</u>	<u>Person in Charge</u>
STREETS AND HIGHWAYS	W. J. Scruggs, Senior Engineer
Highways	L. T. Tom, Engineer
St. Impvt. & Reconst.	G. M. Wong, Engineer
Street Inspection	T. A. Pedersen, Street Inspection Supervisor
RECREATION & PARK ENGINEERING	D. Martin, Senior Engineer
Engineering	W. H. Person, Engineer
Landscaping	H. C. Schmidt, Landscape Architect
GENERAL ENGINEERING SERVICES	G. Galli, Principal Engineer
Administration	C. J. Brady, Senior Engineer
Office Management	F. R. Nichols, Head Clerk
Steno Pool	Mrs. H. Hutchinson, Senior Clerk Typist
Utilities & Special Services	J. J. Walsh, Jr., Engineer
Contract Preparation	C. T. Beggs, Engineer
Structural	G. T. Jeong, Senior Engineer
Mechanical	M. D. Koo, Engineer
Electrical	A. E. Tanner, Senior Engineer
SANITARY ENGINEERING	A. O. Friedland, Principal Engineer
Planning and Studies	W. R. Giessner, Engineer
Design	T. F. Landers, Engineer
Administration	B. Martin, Senior Engineer

SURVEYS AND MAPPING

Administration and
Records
Office
Field Surveys

S. C. Gerughty, Senior Engineer
A. F. Hollett, Associate
Engineer
G. Q. Woo, Engineer
W. E. Bryan, Chief Surveyor

CONSTRUCTION

Inspection
Testing

W. C. Ewing, Senior Engineer
T. J. Ford, Jr., Engineer
E. W. Pearson, Assoc.
Materials Engineer

CONTRACT ADMINISTRATION F. Giusto, Administrative
Engineer

TRAFFIC ENGINEERING

Design

Planning

Operations

W. Marconi, Sr. Traffic Engineer
G. R. Hansen, Assoc. Traffic
Engineer
R. J. Evans, Asst. Traffic
Engineer
N. E. Bray, Traffic Engineer

PERSONNEL AT BEGINNING AND END OF FISCAL YEAR

	July 1, 1968	June 30, 1969	Change
ADMINISTRATION	3 (1)	3	---
GENERAL ENGINEERING	99 (1)	116	+ 17
RECREATION AND PARK ENGINEERING	19	18	- 1
STREETS AND HIGHWAYS	39	39	---
SANITARY ENGINEERING	28 (1)	36	+ 3
SURVEYS AND MAPPING	39	36	- 3
CONSTRUCTION	43	57	+ 14
TRAFFIC ENGINEERING	29	29	---
TRANSIT TASK FORCE	5	9	+ 4
TOTAL	304	338	+ 34

(1) (Adjusted to reflect re-organization during 1968-69)

Employees in Professional Classifications -----	137
Employees in Technical Classifications-----	161
Employees in Clerical-----	40

PAYROLL:

The following tabulation shows the number of employees and total payroll charged to General, Project and Road Funds:

SOURCE OF PAYROLL FUNDS	EMPLOYEES 1968-69	PAYROLL 1968-69
General Fund		
Budget Payroll	75	\$946, 917.23
Project Funds (Gas Tax, Bond, General, etc.)	234	\$2, 375, 797.01
Road Fund - Traffic Engineering	29	\$284, 543.02

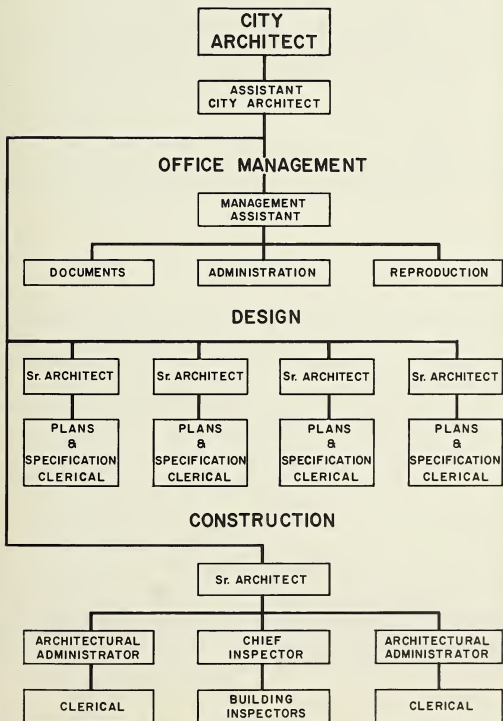
RETIREMENTS:

During the past year, the following employees were retired and recognition is given for their faithful service to the organization:

R. A. HAUS	8/1/68	ASSOCIATE ELEC. ENGR.	21 years
ARCADY VOROBIOFF	8/9/68	ASSISTANT ELEC. ENGR.	10 Years
FRED H. HOLZHEISER	9/16/68	COST ESTIMATOR	27 Years
CALDWELL HATTAM	10/19/68	SR. CLERK	10 Years
MAURICE SEAMAN	11/1/68	ASSISTANT ELEC. ENGR.	22 Years
MARIE L. SPAULDING	11/1/68	CLERK-TYPIST	8 Years
IRA HESS	2/18/69	SR. CLERK	20 Years
EUGENE SIERRA	4/1/69	ADMIN. ENGINEER.	30 Years

BUREAU OF ARCHITECTURE DEPARTMENT OF PUBLIC WORKS ORGANIZATION CHART

JULY 1 1969



BUREAU OF ARCHITECTURE

Charles W. Griffith, City Architect

The Bureau of Architecture supervises the design and construction of new public buildings, and the modernization and alteration of existing public buildings, under plans duly approved by the various City, State and Federal Departments which are involved.

Once the need for a building project is established, the Bureau assists the requesting City department in the preparation of a basic program and the acquisition of a building site. The program consists of general information relative to the activities and services to be performed in the building, the number and type of employees who will be housed in the building, the number and type of public to be served, and related data. The Bureau then prepares sketches, specifications, and estimates of cost, and when funds are available, prepares, or supervises the preparation of the schematic, preliminary and final drawings, specifications, and estimates. After approval of the final documents, bids are requested by advertisement in the official newspaper, opened in public, reviewed and analyzed, and recommendations are prepared for award of the construction contract. After award and certification of the contract, Bureau personnel inspect the construction as it develops, certify monthly progress payments, and upon completion of the project, verify that it has been properly constructed in conformance with the plans and specifications and initiate the final payment to the contractor.

The work which was being processed in the Bureau as of July 1, 1969 was as follows:

1. Plan and Specification Stage	\$ 39,696,500
2. Work Under Construction (64 jobs)	18,522,966
3. Work Completed (122 jobs)	<u>5,934,634</u>
Total	\$ 64,154,100

ORGANIZATION

The organization of the Bureau is broken down into three separate divisions: Office Management, Design, and Construction, as shown by the Organization Chart.

OFFICE MANAGEMENT

Section I - Documents

This section is responsible for the assembly and issuance of the contract documents to contractors, the filing of tracings, blueprints, and specifications, and related work.

Section II - Administration

This section is responsible for personnel matters, all incoming and outgoing correspondence, dispensing information to contractors and architects, the operation of the Bureau's main counter, and related work.

Section III - Reproduction

This section is responsible for the requisition and procurement of blueprints, the assembly of blueprints, the reproduction and assembly of specifications, and related work.

DESIGN

The responsibility for processing the various jobs from initial inception to completion of the final drawings, specifications and estimates is divided into four sections. Each of these sections is headed by a senior architect who maintains formal and informal relationships with the client agency and supervises the personnel assigned to him for the preparation of the drawings and specifications.

Fire Department Design Section

1964 Fire Department Bond Issue - \$4,890,000

Since the last annual report was published, all design work has been suspended on the 1964 Fire Department Bond Issue until Gage-Babcock & Associates, Inc., fire protection engineers employed by the Fire Commission, have evaluated the suitability of existing fire stations to meet fire protection needs. As a result, plans and specifications for new fire houses are being delayed. The present status of Bond Issue work is as follows:

I. Completed (34%)		\$1,681,000
1. Headquarter's Building	\$1,115,000	
2. Fire Station Engine Co. No. 28	256,000	
3. Fire Station Engine Co. No. 7	310,000	
II. Under Construction (20%)		937,000
1. Fire Station Engine Co. No. 17 and Truck Co. No. 1	477,500	
2. Fire Station Engine Co. No. 43	394,900	
3. Fire Station Engine Co. No. 46	65,500	
III. Projects Held in Abeyance (42%)		2,083,500
1. Fire Station Engine Co. No. 16	278,300	
2. Fire Station Engine Co. No. 36	351,390	
3. Fire Station Engine Co. No. 33	355,500	
4. Fire Station Engine Co. No. 37	399,100	
5. Fire Station Engine Co. No. 3	384,700	
6. Fire Station Engine Co. No. 8	314,600	
IV. Contingent Fund (4%)		242,640
	TOTAL	*\$4,945,040

* \$55,040 of these funds are from
1952 Fire Department Bond Issue

Upon completion of the Gage-Babcock report, and its approval by the Fire Commission, the design and construction of the required new Fire Houses will be expedited as much as possible.



FIRE STATION ENGINE CO. NO. 17 AND TRUCK CO. NO. 1

Construction Cost: \$406,280
Completion Date: September 9, 1969
Address: 446 Jessie Street

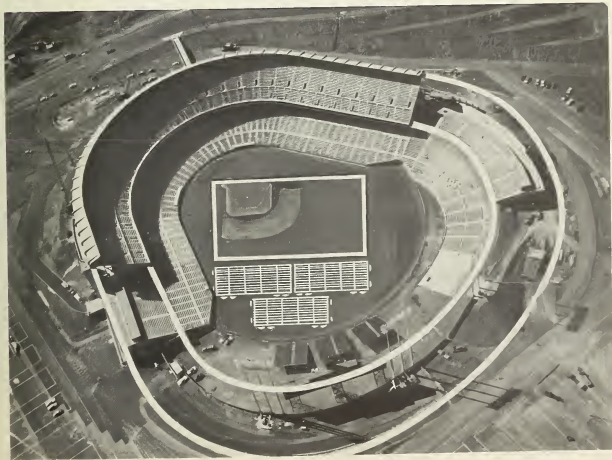
Candlestick Park Stadium

This section is also managing the Additions and Expansion of Candlestick Park Stadium, which has been estimated to cost \$9,150,000. Improvements include artificial turf, provisions for conversion from baseball to football, expansion of seating capacity from 42,000 to over 60,000, elevators and escalators, and various other improvements.



Early study model of Proposed Additions
and Expansion of the Stadium.

Existing stadium showing how extra
seats will be added.



Miscellaneous Section

This section is responsible for handling capital improvement estimates for projects assigned to the Bureau. In addition, construction projects were processed for de Young Museum, Brundage Wing, California Palace of Legion of Honor, Juvenile Court, Municipal Courts, Police Department, District Attorney, City Attorney, Hall of Justice, Recreation-Park Department, Controller, Veterans Building and Opera House, Sheriff, Library Commission, etc.

The Brundage Collection

Problems of storing and displaying priceless artifacts, silk scrolls and oriental screens were solved by specially designed steel cases and sliding glass enclosures.

California Palace of The Legion of Honor

Continued the program of refinishing galleries.

Juvenile Court

Provided additional offices in Administration Building and remodelled Cottage #G1 in the continuing program of improving ventilation and security.

Minor acoustical and miscellaneous work at Hidden Valley Ranch.

Hall of Justice

Various alterations in City Prison including - Women's prison - holding tank and security door controls.

An extensive exterior waterproofing project was started in July under direction of the Bureau.

Municipal Courts: Two new oak panelled court rooms were installed and furnished under direction of the Bureau.

Police Department

After a rash of attacks on district stations, an emergency program of protection was initiated. Glass in vulnerable windows was replaced with unbreakable panels. Portable bullet-proof screens were designed for use as needed.

Recreation-Park Department

Under Bureau direction, decorative lighting and storage facilities were added to Palace of Fine Arts.

Historic McLaren Lodge, deteriorating from severe weathering through the years, was given a "face-lift" by replacing much of the stone with cast colored concrete and quarry tile.

The much publicized remodeling of the old home on the Brooks property was finished early in the year, thus providing an approved and proper meeting place for the very active neighborhood groups in the area.

Plans were completed and construction started on the M. M. Casey Recreation Building in Sunnyside Park. Completion is scheduled for August, 1969.

Plans and specifications for the Christopher Recreation Center on Diamond Heights were finished and the building together with the entire park project will be put out to bid in August, 1969 by the Bureau of Engineering.

Plans and specifications for the Gilman Recreation Building in Hunters Point were started and bids will be requested in October, 1969.

Sheriff

Bids were received on August 13 for alterations and additions to a building at 930 Bryant Street to accommodate county jail prisoners who will be allowed to work at regular jobs while serving their time.

Capacity at County Jail was increased by the addition of 150 wall hung bunks of special design.

Other Projects

The Chinatown Gateway, a winning design in a competition among local private architects, was processed through the Bureau and will be completed in August, 1969.

Several office partition projects were completed for various departments in the City Hall including extensive work in the City Attorney's office.

The Anna E. Waden Branch Library in the Hunters Point area was completed under direction of the Bureau.

The recently acquired building at 240 Van Ness Avenue was altered for use by the Electronic Data Processing Division of the Controller's Department. Further alterations and additions, including air conditioning, are in the planning stage and will be advertised for bids in October, 1969.

Bond Issues

New Civic Courts Building

New School Administration Building

Renovate City Hall

Total \$35,500,000

EBS Associates completed a study for the Civic Center Technical Coordinating Committee in June, 1967 which recommended that the above program be carried out as expeditiously as possible and estimates were developed by the Bureau of Architecture during the Winter and Spring of 1968-1969. The method of financing of this project has not yet been determined.

New Public Library

\$16,000,000

The present central library is not properly designed to serve as a modern library, and a completely new building is needed.

Recreation and Park Bond Issue

\$ 9,998,000

This bond issue was defeated in 1964 and 1968, but will be on the ballot again in November 1969. It is badly needed in order to modernize and update recreation facilities and the need has grown more acute over the succeeding years.

Capital Improvement Bond Issue

\$ 4,930,000

This bond issue to provide for many badly needed capital improvements of various departments will be on the ballot in November, 1969.

School Bond Issue

\$10,000,000

This bond issue is to provide school facilities for the Hunters Point Area and will be on the ballot for the November, 1969 election.

Other Bond Issues Under Consideration Are:

- a. Additional New Schools
- b. Palace of Legion of Honor
- c. Further development of de Young Museum
- d. Youth Guidance Center
- e. Social Services
- f. Musical Arts Building



M. M. CASEY RECREATION BUILDING

Construction Cost:

\$127,741

Completion Date:

November, 1969

Address:

Foerster and Mangels Avenue



ANNA E. WADEN BRANCH LIBRARY

Construction Cost: \$235,090

Completion Date: April 24, 1969

Address: Third Street and Revere Ave.



GATEWAY TO CHINATOWN

Construction Cost: \$76,790

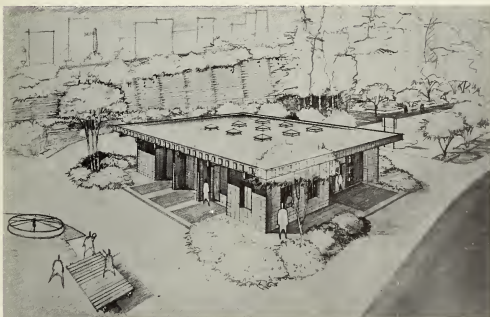
Completion Date: September, 1969

Address: Bush Street and Grant Avenue



GILMAN RECREATION PLAYGROUND

Location: Candlestick Point Area
Advertise Date: October 15, 1969
Estimate: \$ 95,000.00



CHRISTOPHER FIELDHOUSE

Location: Diamond Heights
Advertise Date: October 1, 1969
Estimate: \$ 115,000.00

Health Department Section

This section is responsible for the preparation of plans, specifications and estimates for the alteration, repair and modernization of existing buildings and management of new building projects for the Health Department.

A. Major Alteration and Modernization Projects

1. Temporary Quarters for Patients
Ward Buildings 50 and 70
San Francisco General Hospital
2. Miscellaneous Repairs to Psychiatric Building 90
San Francisco General Hospital
3. Remodeling of Diet Kitchen
Hassler Hospital
4. Miscellaneous Repairs to Main Kitchen
Hassler Hospital
5. Remodeling Fluoroscopic Room into an X-Ray Room
Hassler Hospital

B. New Building Projects

1. District Health Center No. 5
Sunset-Richmond Health Center

This facility serving the outer Richmond and Sunset Districts was completed in January of this year. This two-story, reinforced concrete structure, was designed for two additional floors.

2. District Health Center No. 4
Chinatown-North Beach Health Center

This three-story structure presently under construction is the first public building in this area to use air rights over a public street. It is the last of the five District Health Centers recently constructed to provide public health services throughout the City.

The medical Aid Station with ambulance facilities on the first floor will partly supplant the Harbor Emergency Hospital, scheduled to be razed under the Golden Gateway Development

Program. The remaining two floors will contain the health center facilities.

3. San Francisco Medical Center
Bond Issue

\$33,670,000

Since approval of this bond issue in the fall of 1965, the preparation of contract documents has progressed satisfactorily. The preliminary drawings and specifications for the Hospital Building were approved April 9, 1969. Final drawings and specifications for the Service Building are scheduled for completion on July 28, 1969.

Service Building
Construction

\$ 4,394,000

Hospital Building

\$23,468,000

The Hospital Building will provide 784 beds for medical, surgical and psychiatric patients with comprehensive ancillary facilities and services. Construction of the Hospital Building is scheduled to start in September 1970 upon completion of the Service Building.



SERVICE BUILDING - SAN FRANCISCO MEDICAL CENTER

Estimated Construction Cost: \$4,294,000

Completion Date: January, 1971

Address: 22nd and Potrero Avenue

C. Project Assigned to the Health Department Section

1. Central Police Station and North Beach Parking Garage

\$1,008,277



CENTRAL POLICE STATION AND NORTH BEACH PARKING GARAGE

Construction Cost:

\$ 1,015,803

Completion Date:

January, 1970

Address:

Powell and Stockton Streets



DISTRICT HEALTH CENTER NO. 5 (SUNSET - RICHMOND)

Construction Cost: \$657,000

Completion Date: October 2, 1968

Address: 25th Avenue between Judah
and Irving Streets

HASSLER HOSPITAL - NEW DIET KITCHEN

Construction Cost: \$ 47,960
Completion Date: January 14, 1969
Address: Redwood City, California



HASSLER HOSPITAL - MAIN KITCHEN

Construction Cost: \$ 7,280
Completion Date: May 27, 1969
Address: Redwood City, California



HASSLER HOSPITAL - FLUOROSCOPIC ROOM

Construction Cost: \$ 11,150

Completion Date: February 18, 1969

Address: Redwood City, California

School Section

1964 School Bond Issue

\$31,464,500

This bond issue will provide four completely new schools, major additions to two new schools, two new buildings for City College, replacement of four elementary schools, replacement of various temporary classrooms with permanent classrooms, and miscellaneous rehabilitation and modernization, in addition to furniture and equipment and miscellaneous costs. The work has progressed favorably and, as of June 30, 1969, the status was as follows:

1. Work Completed - New Buildings Five Projects	13%	\$ 4,026,643.05
2. Work Completed - Modernization and Rehabilitation	10%	3,314,751.53
3. Work Under Construction Six Projects	35%	10,988,870.48
4. Final Drawing Stage Three Projects	35%	10,818,700.00
5. Miscellaneous Costs, Plans and Specifications, and Unallocated	7%	2,315,534.94
TOTAL		\$31,464,500.00

School District Work

In addition to the Bond work, the Bureau also processed a great number of non-bond projects for the School District. Most of this work, which is detailed in Appendix No. 2, is essentially alteration and maintenance projects. Construction was completed on one new school, financed by Federal subvention, Treasure Island Elementary School Unit I.

Construction started on Treasure Island Elementary School Unit II and on the Student Union Building at City College of San Francisco, both financed by Federal subvention.

Preliminary planning was started on the Bayview Elementary School which will be financed by State Funds. Preliminary plans were also started for the addition to the Creative Arts Building at City College of San Francisco.

Plans and specifications were prepared and bids were received for 81 portable classroom buildings to be erected at 14 different school sites, and this construction was to start on August 6, 1960.

Construction Division

This division supervises and inspects all work under construction. The responsibilities of the Construction Division include inspection of work for conformance with contract documents, progress and validity of the contract work, contract payments and certification of completion of the contract. The Construction Division investigates and recommends disposition of contract claims.

This division is headed by a senior architect and there are 2 architectural administrators who assist him in the administrative responsibilities. The division also includes a chief building inspector, who supervises the activities of 15 permanent building inspectors, and 8 to 12 temporary inspectors.

Pictures of various buildings under construction follow.



NEW CABRILLO SCHOOL (RENDERING)

Estimated Construction Cost: \$1,493,000

Construction to Start:

October, 1969

Address:

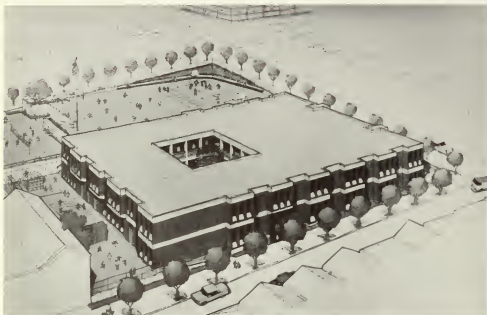
Between 24th & 25th Avenues
near Balboa Street

GRATTAN SCHOOL (RENDERING)

Estimated Construction Cost: \$1,326,000

Construction to Start: November, 1969

Address: Grattan Street Near Shrader Street



PAUL REVERE SCHOOL ANNEX

Construction Cost: \$843,503

Completion Date: January 14, 1969

Address: Thompkins Avenue
between Folsom and Bank Streets

PORTABLE CLASSROOM BUILDINGS - SAN FRANCISCO (For Various Sites)



CITY OF SAN FRANCISCO - LABORATORY AND CLASSROOM BLDG.

Construction Cost:

\$1,292,214

Completion Date:

October, 1969

Address:

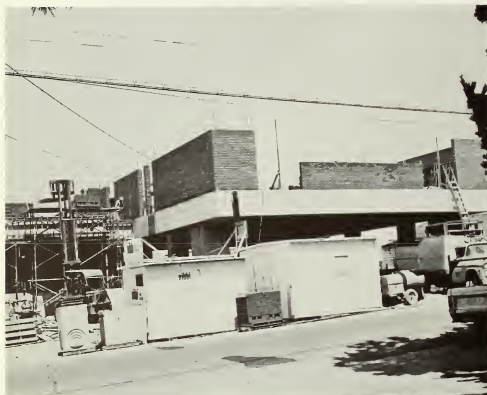
50 Phelan Avenue

FIRE STATION ENGINE CO. NO. 43

Construction Cost: \$ 357,224

Completion Date: January, 1970

Address: 720 Moscow Street



EL DORADO ELEMENTARY SCHOOL

Construction Cost: \$757,854

Completion Date: September 15, 1969

Address: Delta & Wilde Avenue

BUENA VISTA SCHOOL

Construction Cost: \$879,571
Completion Date: October, 1969
Address: 2641 - 25th Street



TREASURE ISLAND SCHOOL - UNIT II

Construction Cost: \$319,525
Completion Date: November, 1969
Address: Treasure Island

BRET HARTE SCHOOL ADDITION

Construction Cost: \$538,342
Completion Date: March, 1970
Address: 1035 Gilman Avenue



VISITATION VALLEY JUNIOR HIGH SCHOOL

Construction Cost: \$3,770,000
Completion Date: Spring, 1971
Address: Raymond and Elliott Streets

DISTRICT HEALTH CENTER NO. 4 AND EMERGENCY MEDICAL AID STATION
(CHINATOWN-NORTH BEACH)

Construction Cost: \$1,565,920
Completion: February 1970
Address: Mason and Broadway Streets



POTRERO HILL JUNIOR HIGH SCHOOL

Construction Cost: \$3,475,839
Completion Date: Spring, 1971
Address: 18th and Carolina Streets

BRET HARTE SCHOOL ADDITION

Construction Cost: \$538,342

Completion Date: March, 1970

Address: 1035 Gilman Avenue



VISITATION VALLEY JUNIOR HIGH SCHOOL

Construction Cost: \$3,770,000

Completion Date: Spring, 1971

Address: Raymond and Elliott Streets

DISTRICT HEALTH CENTER NO. 4 AND EMERGENCY MEDICAL AID STATION
(CHINATOWN-NORTH BEACH)

Construction Cost: \$1,565,920
Completion: February 1970
Address: Mason and Broadway Streets



POTRERO HILL JUNIOR HIGH SCHOOL

Construction Cost: \$3,475,839
Completion Date: Spring, 1971
Address: 18th and Carolina Streets

Bureau of Architecture
Supervisory Personnel
As of June 30, 1969

City Architect Charles W. Griffith

Assistant City Architect Hugh W. Hiatt

ADMINISTRATION

Management Assistant Richard De Martini

DESIGN

I. School Work

Senior Architect Norman Karasick

Architect Harry Squeri

Architect Orlando Orlandi

Architectural Associate Richard Leong

II. Health Department Work

Senior Architect Robert Malerbi

Architect Al Crowe

III. Fire Department

Architect Walter Krohn

IV. Miscellaneous Work

Senior Architect Clement Mullins

Architect Francis Chinn

Architect Arthur Lee

Architectural Associate Peter Pira

CONSTRUCTION

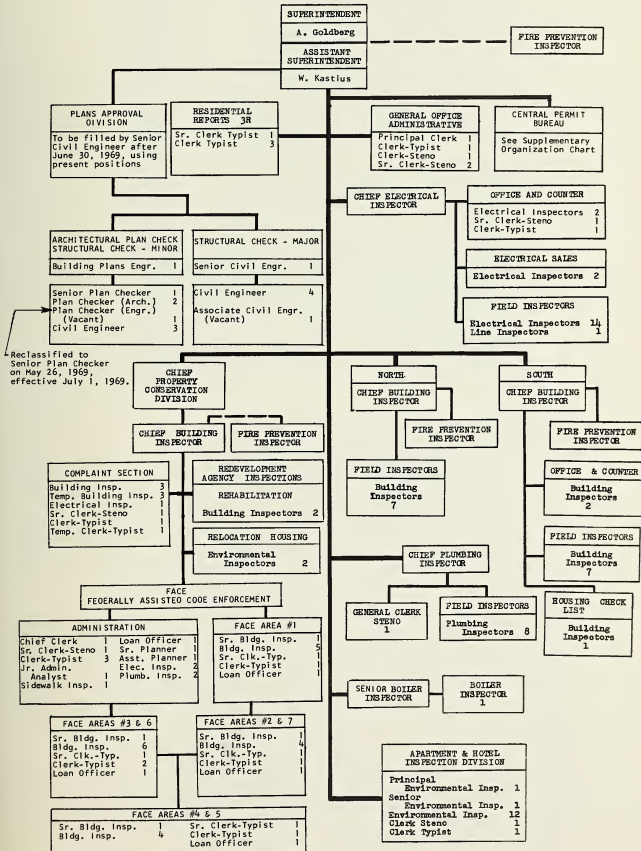
Senior Architect John R. Wilkinson

Chief Building Inspector Robert J. O'Connell

Architectural Administrator Albino Giusto

Architectural Administrator Michael Inan

CITY AND COUNTY OF SAN FRANCISCO
DEPARTMENT OF PUBLIC WORKS
ORGANIZATION CHART
BUREAU OF BUILDING INSPECTION
JUNE 30, 1969



BUREAU OF BUILDING INSPECTION

Alfred Golberg, Superintendent

CONSTRUCTION ACTIVITY CONTINUES

The construction volume continued at an annual level of \$190,000,000 in permit valuation. As in the previous 2 or 3 years, the main emphasis has been split between major structures and alteration work. One aspect of the construction trend that is significant is the number of hotel additions as well as new constructions underway or planned for in the next year or two. In all, a total of 10 to 12 hotels are now in some phase of planning and construction.

Major buildings, primarily those representing the headquarters buildings of banks and insurance firms continued to make up a substantial amount of the dollar volume.

The Bank of America 53-story headquarters building, the 38-story Crocker building and the 32-story Mutual Benefit Life building were some of the new additions to the skyline.

The initial structure of the Embarcadero Center project was under construction with the foundation of a 45-story office building nearing completion. The extensive remodeling of two former ice houses into merchandise centers for the interior decorating industry was completed as the first phase of the International Market Center, a \$100,000,000 project on the north waterfront.

CENTRAL PERMIT BUREAU

In order to improve processing and storage of permits and records, the Director of Public Works transferred the Central Permit Bureau and placed that Bureau under the Superintendent of Building Inspection effective July 1, 1968.

Increasing review of procedures and needs is in progress aimed toward improved utilization of manpower and better service to the public. The entire record keeping problem is a major one, both for the Bureau and the public.



Ice House
Sansome & Union

Holiday Inn
Eighth St. & Mission



St. Mary's Cathedral
Geary & Gough



Chinese Cultural Center
Kearney & Washington

Stabilization of employee turnover, better use of the abilities of personnel assigned to counter service of both Bureaus, and resolution of the record keeping problem are the major objectives or short term improvements hoped for from the consolidation of the two Bureaus under one administration head.

One of the first steps in attempting to improve the record systems in the Central Permit Bureau, which is vital to the operation of the Bureau of Building inspection, was a budget request that these records be placed on microfilm. The budget request, in the amount of \$250,000, was to photograph all the past permit records; and defined also that an annual expenditure of between \$5,000 and \$7,000 Would provide for continued maintenance of the system. The request was approved by the Chief Administrative Officer but deleted by the Major as an economy move. The urgency of this matter is such that a very strong attempt will be made in the next fiscal year's budget considerations together with an approach to the construction industry at large to support this change in the records system.

At issue is the preservation and protection of the records of building construction of San Francisco. These same records pre-dating 1906 were destroyed by fire and earthquake in 1906. There has been no change in the system of protecting these records and, therefore, a similar catastrophe can occur wiping out City records. By the use of microfilming, duplicate sets can be prepared and stored in the City Records Center providing security for the records of the City.

PLANS APPROVAL DIVISION

The Plans Approval Division, whose primary function is the review of proposed construction to gain compliance with the San Francisco Building Code, inaugurated a program utilizing the assistance of an electronic computer. The computer is used on a time-sharing basis with other users, providing the most economical service.

The personnel attended various structural engineering conferences and training sessions to keep abreast of the rapidly changing techniques and technology in the construction Industry.

Several administrative changes were initiated, aimed at improving the architectural and structural plan checking service provided by this Bureau. The presence of a Fire Inspector, whose function is to review plans for conformance with the State Fire Marshal's regulations and the Fire Code as well as provide consultation on other occupancies, has been a material factor in decreasing the time of plan review.

NEW BUILDING CODE

After two and a half years of preparation, review, and meetings with all segments of industry and the professions, the completely rewritten and re-edited Building Code became effective on March 20, 1969. The new code utilizes a format completely compatible with the Uniform Building Code. It is printed in looseleaf form with slightly larger type for easier readability.

The Code contains many changes, generally less restrictive. The policy of referring to nationally available standards rather than reprinting them was carried out to a greater degree than heretofore. Reference standards are now employed for lumber, plywood, plastering and wallboard in addition to the concrete and steel provisions. The Code became available to the public just prior to the end of the fiscal year at a price of \$8.45.

CONCRETE IN HIGH RISE BUILDINGS

One of the major changes in the new Building Code was to permit reinforced concrete structures to be built to a height of 26 stories or 160 feet. However, the greater height of structure requires the use of ductile moment resisting space frame in accordance with detailed code requirements based upon the recommendations of the Structural Engineers Association of California. A further provision requires that a Special Advisory Board be employed by the owner from a list of engineers nominated by the Structural Engineers Association of Northern California and approved by the Director of Public Works. That Board is required to review the concept and design of the structure and report to the Bureau on the compliance with the structural requirements of the Code.

Ductile concrete structures require considerable additional care in design and construction, and must meet the detailed requirements of the criteria established by test.

PARAPET ORDINANCE

A retroactive parapet ordinance was enacted at the request of the Chamber of Commerce and the Structural Engineers Association of Northern California. This was incorporated in the building Code at the request of the Board of Supervisors.

The required inspection and eventual anchoring or removal of hazardous parapets and exterior appendages on buildings would increase safety of the City population and visitors in the event of earthquakes. Falling parapets have been the No. 1 "killer" in most earthquakes. Unfortunately, implementation of this ordinance was delayed due to lack of funds for the necessary staff resulting from deletion of the 1969-70 budget appropriations for staff and equipment.

The Department went on record by letter to the Board of Supervisors that due to the deletion of staff for enforcing these retroactive provisions, the Department will not enforce same. It is expected that this matter will be reconsidered next year.

AIR CONDITIONING AND REFRIGERATION SECTION

As part of the new Building Code, the air conditioning and refrigeration industry requested that provisions for their field of operations be included. It has previously been decided that due to failure, over an 11-year period, in obtaining personnel to enforce comparable provisions in the 1956 Building Code that these requirements be left out of the new code.

A special committee representing a cross-section of those industries, including mechanical engineers, architects, and contractors, proceeded to develop code provisions based upon the latest technical information in the field. At the same time, a request was made by that industry, in conjunction with two of the unions involved; namely, the Plumbing and Sheet Metal Unions, to staff this new section to enforce the new code provisions. The

staff of four persons, consisting of one mechanical engineer, one air conditioning refrigeration inspector, one heating and ventilating inspector, and one clerk was approved by the Mayor and the Finance Committee of the Board of Supervisors.

The new Building Code, therefore, contains no air conditioning or refrigeration provisions since no staff would be provided to enforce same. San Francisco is the only major city in the United States that does not have such inspection. It is the position of the Department of Public Works that no provisions of the Code should be enacted unless staff to provide enforcement is also furnished.

NEW HOUSING CODE

As a companion to the new Building Code, a new Housing Code was adopted into law. The new Housing Code contains many of the less restrictive requirements previously a part of the Field Inspectors Manual. Transferred from the Housing Code into the new Building Code were all construction requirements. The Housing Code will be the "existing" residential buildings code basically containing the retroactive requirements for all residential buildings. No changes were made in these retroactive provisions.

NATIONAL ASSOCIATION OF HOUSING AND REDEVELOPMENT OFFICIALS (NAHRO) ACTIVITIES

With the increasing importance of the rehabilitation and conservation program of the Bureau of Building Inspection, the continued activities in the National Association of Housing and Redevelopment Officials have gained increased status. The related activities with COHAB VI, representing those agencies in the States of California, Nevada and Arizona, were concerned with rehabilitation and code enforcement as a means of retention of housing stock. The Superintendent was elected as a Vice President of COHAB VI and took part in efforts to coordinate the philosophy and work for merging that group into the Pacific Southwest Region of NAHRO.

In June, the Superintendent was elected as Director of the Pacific Southwest Region of NAHRO. At the same time, that organization agreed to take over those functions of COHAB VI, established a rehabilitation committee and would urge the establishment of a national rehabilitation committee in the NAHRO



Banneker Homes Project
Redevelopment Area
Fulton & Buchanan



Housing Authority Project
Pacific & Mason

organization. It will be the aim of both the regional group and the national group to effect retention of the national housing stock thru rehabilitation.

SYSTEMATIC HOUSING ENFORCEMENT PROGRAM

With the transfer of the Environmental Health Inspectors from the Department of Public Health, and the resultant consolidation of all housing enforcement in the Bureau of Building Inspection in July 1, 1967, the program to systematically bring about legal conditions in housing in San Francisco has progressed at an increasing pace. The Bureau, through the Department of Public Works, the Chief Administrative officer, and the Mayor's Office, was able to present a program of bringing about legal housing in San Francisco in the most economical and expeditious manner by concentrating on multi-family units. These represent 60 percent of the total residential units in San Francisco which are contained in 16,000 to 18,000 structures.

In order to provide an acceptable means to determine the sequence in which structures should be ordered into compliance, a deficiency rating system was adopted. A complete survey of every structure was made using this deficiency rating system during the 1968 calendar year and was completed in March, 1969. In addition, all seriously hazardous buildings with inadequate egress or illegal conversions, where known to exist, were inspected during the same period of time to bring about early compliance. These constituted the first group of buildings within the systematic enforcement program which is intended to bring into compliance about 1,000 structures per year. At the end of the fiscal year arrangements had been made, financed from the Mayor's relocation funds, to place the data from the deficiency survey onto punch cards for tabulated records analysis. This will constitute the first detailed record of every multi-family structure in the City and can form the basis of a very important housing records system.

The first use of this system will be to determine the relative deficiency status of all housing used for relocation purposes. The second important use will be to determine annually those structures to be brought into compliance throughout the City based upon the remaining highest deficiency point scores. It is expected, in conjunction with the Department of City Planning that a very detailed

analysis will be made of this record of housing and a report will be issued, probably in 1969-70, utilizing this newly developed fund of housing information.

NEW ELECTRICAL CODE NEARS COMPLETION

At the end of the fiscal year the final draft, together with resolution of the Committees on same, was being reviewed by the industry's Joint Committee on the new Electrical Code. It was expected that by late summer the matter would be referred to the Chamber of Commerce, acting as an industry review group, to reconcile those items which had not been accepted by the Joint Committee and which were still of concern to the reviewers of the Code. Upon the Chamber of Commerce completing its function and recommending adoption of, or adoption with amendments to the Code, the Code would then be submitted to the Board of Supervisors by the latter part of 1969.

The new Electrical Code is based, in part, on the National Electrical Code and the State of California Electrical Safety Orders.

STATE FIRE MARSHAL AND HOC COMMITTEE

The State Fire Marshall of California has invited the Superintendent to participate on Ad Hoc Committees dealing with proposed changes to the State regulations. As the State jurisdiction involves, through the local Fire Marshal, enforcement of the State regulations for occupancies such as theaters, schools, hospitals and public assemblies, the participation on such committees can greatly assist in achieving regulations compatible with those of San Francisco and vice versa.

The two committees involved schools and smoke damper regulations. The school requirements are of critical importance particularly since the new San Francisco Building Code philosophy of schools is different than that of the State Fire Marshal regulations. Of particular importance is the realization that few if any jurisdictions in the State, including the State itself, are in fact enforcing the present school requirements.

It is hoped that code changes as to schools, developed by such an Ad Hoc committee, will be enacted into the Uniform Building Code and thereafter adopted by the State Fire Marshal. Such cooperative endeavors by the several regulatory bodies provide the best method of developing reasonable regulations and eliminating conflicting provisions.

INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS ACTIVITIES

With the increased pressures for federal codes and state codes, the activities of the International Conference of Building Officials, (ICBO), sponsors of the Uniform Building Code, are of great importance. The new San Francisco Building Code adopted the format and occupancy designations as well as the sections of the Uniform Building Code so that we would be as close to that Code as was possible.

The Superintendent was a member of the General Design Committee which considered structural changes to be considered in the Annual Business Meeting at which the 1970 Uniform Building Code changes would finally be resolved. It is felt that only through support of the ICBO and by attempts to utilize as much as possible the Uniform Building Code provisions, can we retain home rule and stave off federal or state codes. Continued activities with both ICBO and the California Chapter of that organization was carried on throughout the year.

The Superintendent was legislative Chairman for the California Chapter on legislation affecting the building inspection field. Through the efforts of that Committee, the painting standards were finally repealed insofar as the enforcement requirements of the building official. In addition, we were able to incorporate into the strongly supported and sure to be adopted prefabricated housing bill sufficient controls to assure that the structures that will be built under that bill will more nearly conform to accepted standard of construction than mobile homes, which have no construction standards.

BOARD OF PERMIT APPEALS

The relationship between the Bureau and the Board of Permit Appeals continues to be that the Board acts to overrule the requirements of the several City codes with little or no equivalent safety being provided in many structures.

As a result of this continued attitude, the Bureau has refused to approve permits ordered to be issued by the Board when there is no equivalent furnished for the code requirements. Each case is examined individually, and with advice from the City Attorney, has requested that this request for advice be in writing.

In the interim, while awaiting the City Attorney's reply, the permit is held in abeyance. Where we are advised that we can refuse to abide by the Board's ruling, abatement proceedings are commenced against the structure in order to bring about code compliance. This procedure has proven generally successful in resolving code deficiencies and gaining cooperation from the building owners.

BOARD OF EXAMINERS

During this year, the Board of Examiners heard many requests for variance from Building Code provisions as well as requests for approvals of new materials.

In addition, reconsideration was begun of all previous approvals for fire-rated floor and roof assemblies containing exposed steel members. Consideration of temperature criteria for such steel is required by the new Building Code as there is no assurance otherwise that adequate safety factors exist.

Mandarin Tower
Stockton & Washington



B. and D. Building
Northpoint & Grant

STATISTICAL SUMMARY
BUILDING PERMITS

<u>Type of Construction</u>	<u>1967-68 No. of Permits</u>	<u>1968-69 No. of Permits</u>	<u>1967-68 Estimated Cost</u>	<u>1968-69 Estimated Cost</u>
Type 1A & 1B	27	25	\$ 88,460,141	\$102,558,141
" 2	1	2	1,293,174	3,012,608
" 3	25	18	3,756,201	7,606,561
" 4	33	36	2,320,731	1,788,413
" 5	268	266	17,998,417	18,548,211
Alterations	<u>12,463</u>	<u>11,643</u>	<u>53,984,456</u>	<u>56,951,649</u>
TOTAL	12,817	11,990	\$167,813,120	\$190,465,583

Type 1A - Steel Frame with reinforced concrete walls and floors. Fire resistive construction.

Type 1B - Built entirely of reinforced concrete. Fire-resistive construction

Type 2 - Similar to Type 1, but with limitations.

Type 3 - Wood frame floors with exterior walls of masonry. Ordinary masonry construction.

Type 4 - Light incombustible frame construction.

Type 5 - Wood Frame construction.

BUREAU OF BUILDING INSPECTION

BUREAU STATISTICS FOR FISCAL YEAR	<u>1967-68</u>	<u>1968-69</u>
Inspections reported by building Inspectors	50,025	46,092
Projects remaining on which permits have been issued that have not been reported completed by building inspec- tors	4,673	4,966
Complaints reported that have been adjusted by building inspectors	2,264	2,316
Inspections reported by boilers Inspectors	1,695	1,298
Inspections of City boilers and air tanks	-	186
Complaints received and adjusted - boiler and air tanks	815	822
Complaints and requests for infor- mation recorded	2,568	2,654
Applications for permits examined and approved by Plan Checking Division	Bldgs. 1,471 Signs 1,258	1,349 1,078
Miles traveled during the year by vehicles on inspection service	465,233	451,940
Report of Residential Records	5,329	5,634

PLUMBING INSPECTION DIVISION

1968-69Permits and Fees

Number of permits, combined work (plumbing, water piping, gas, etc.)	2,459
Number of permits, plumbing only	690
Number of permits, gas only	6,439
Number of permits, water piping only	1,478
Number of plumbing permit issuance fees paid	2,424
Number of gas permit issuance fees paid	1,753
Number of water line permit issuance fees paid	3,511
Number of extra charge fees	329
Number of reinspection charge fees	36
Total receipts for fiscal year	\$161,843.28

Inspections

Number of inspections made (plumbing, water, gas, etc.)	15,806
Number of jobs finalized	7,567
Number of lockouts	1,848
Number of hours spent on fee exempt work	2,427

Complaints and Adjustments

Number of complaints received	1,159
Number of complaint inspections	2,481
Number of complaints abated	905
Number of Coroner's requests for investigation	2
Number of condemnation reports	24
Number of work without permit found (penalty work)	94

Sewers

Number of building sewers installed	185
Number of building sewers replaced or repaired	213
Number of building sewer traps replaced	320

Plumbing Fixtures, Etc.

Number of plumbing fixtures and waste discharge	31,558
Number of sump ejectors	6
Number of grease interceptors	14
Number of rain water leaders	705
Number of water outlets over 4	69,712

Gas Installations

Number of gas lines installed, 1 outlet only	2,408
Number of gas outlets over 1	2,854
Number of gas conversions	4
Number of warm air furnaces	1,802
Number of water heaters	3,111
Number of miscellaneous gas appliances	4,849

ELECTRICAL INSPECTION DIVISION

	<u>1967-68</u>	<u>1968-69</u>
Permits issued, wiring and signs	12,300	11,753
Inspection made	37,574	39,007
Complaints investigated (found defective)	2,716	3,057
Installations in progress as of June 30, 1969	4,584	4,079
Installations completed	11,917	12,258
Pinball machine inspections	526	480
Juke box inspections	56	32
Inspections of Nursing Homes and Boarding Homes for ambulatory aged	183	102
Night Club, Public Assembly, Dance Halls, etc., inspections	287	145
Spray Booth inspections	50	16
Specials: (Garages, Parking Lots, Laundries, etc.)	248	206

DIVISION OF APARTMENT AND HOTEL INSPECTIONS
STATISTICAL SUMMARY

	<u>1967-68</u>	<u>1968-69</u>
<u>Structures Inspected (annual inspections)</u>		
Apartment Buildings	13, 750	11, 945
Hotel Buildings	848	556
<u>Complete Inspections of Structures</u>	773	900
<u>Structures "Picked-Up" - No Previous File</u>		
Apartment Buildings	90	128
Units Picked-Up	299	453
Hotel Buildings	1	8
Units Picked-Up	7	75
<u>New Buildings and Units Gained</u>		
Apartment Buildings	22	74
Units Gained	727	923
Hotel Buildings	3	0
Units Gained	183	0
<u>Structures Reverted to Dwellings</u>	42	34
<u>Buildings Abated</u>	324	286
With Building Permit	311	274
Total Units in Substandard Buildings	3, 556	2, 626
Dwelling Units Brought into Compliance	2, 916	2, 214
Dwelling Units Eliminated (includes Vacant Units)	640	412
<u>Principal's Conferences</u>	589	401
<u>Superintendent's Conferences</u>	154	276
<u>Complaints Filed (Condemnation Referrals)</u>		
Apartment Buildings	109	132
Hotel Buildings	11	14
<u>Building Permit Applications Processed</u>	1, 449	2, 203
<u>Requests for Citations to District Attorney</u>	20	5
<u>Requests for Inspection Warrants</u>	2	2
<u>Complaints Received</u>	980	961
<u>Complaints Abated</u>	816	814
<u>Notices Issued</u>	6, 631	5, 105

DIVISION OF PROPERTY CONSERVATION

FACE: Federally Assisted Code Enforcement
Progress at the Three-Quarter Mark

The Bureau's FACE Program (Federally Assisted Code Enforcement) in four pilot neighborhoods is now at the three-quarter mark of its three-year project period. The completion date for the projects has been moved forward to February 28, 1970, allowing a full three years for the program. FACE has been well received by the City's residents; the success of the program is testified to by HUD's granting approval of three new neighborhood areas for inclusion in the FACE Program on March 9, 1969. With the addition of the new areas, the FACE projects cost now totals \$4,477,721. The total federal grant is \$3,801,648. The current estimate of administrative costs is \$567 per building or \$283 per dwelling unit. Activity in the new areas (Alamo Square, Bernal Heights, and Duboce Triangle neighborhoods) began on the first of July, 1969.

Initial inspections have been made on 99% of the buildings in the pilot FACE neighborhoods: Arguello Park, Buena Vista Heights, Glen Park, and Great Highway. Of the 2,960 buildings inspected (out of a total of 2,981), the breakdown is as follows:

Face Progress	Residential: Structures/ Dwell Units	Mixed-Use: Dwell Units/ Commercial Units	Commercial: Structures/ Commercial Units
Structures Inspected			
To Date - 2960/99.6%	2865/5543	68/148/96	27/48
Structures Found Free of Violations - 382/13%	370/544	6/8/7	6/13
Structures Found In Violation - 2546/86%	2477/4899	62/140/89	7/20
Structures Inspected Report Not Filed - 32/1%	18/100	0/0/0	14/15
Structures Brought Into Compliance	1492/2850	21/45/25	16/19
Structures Demolished	18/22	1/1/3	2/2
Compliance Costs per Unit	\$1306/\$684	\$607/\$182/\$182	\$276/\$232

As of June 30, 1969, 354 loans totaling \$1,929,740 and 141 grants totaling \$233,976 had been made to property owners in the four FACE areas. Of the 1,529 structures brought into compliance, 322 were awarded loans and/or grants as shown in "A" below; this may be compared to the private financing figures in "B."

A. Federal Financing	Number	Total	Average/ Building
Rehabilitated Structures Receiving Loans	229	\$1,151,862	\$5,030
Rehabilitated Structures Receiving Grants	65	90,752	1,396
Rehabilitated Structures Receiving Loans & Grants	<u>38</u> 332	<u>221,850</u> \$1,464,464	<u>5,838</u> \$4,411
B. Private Financing			
Rehabilitated Structures	1,207	\$ 506,939	\$ 420

It is significant to note that of the \$1,971,403 spent on the 1,529 structures brought into compliance (not including structures that were without violations initially), the source of 74% or \$1,464,464 of this money was in the form of federal loans and grants. This high proportion of Federal assistance cases is expected to increase even further, as additional funds for the FACE programs are made available by the Federal Government.

HUD's funds Section 312 Rehabilitation Loans were exhausted April 23, 1969. Forty-two loans amounting to \$300,000 were backlogged in the HUD original office awaiting funding. It is feared that by August when Congress appropriates loan money, we will have accumulated twice the current backlog. Contractors' bids, upon which the loan application is based, will be several months old and may not be honored by the contractors because their costs have risen. Many of these jobs will probably have to be rebid. This delay in financing will undoubtedly slow progress toward completion.

RELOCATION OF FAMILIES AND INDIVIDUALS

Relocation services for families and individuals displaced by FACE program activities are provided by the Central Relocation Service of the San Francisco Redevelopment Agency.

Since the beginning of FACE, ten families and fifteen individuals have been removed from the relocation workload. Relocation distribution was as follows:

	Families	Individuals
Net estimated workload	59	123
Estimated eligible for Federally-Aided low rent housing	20	37
Total actual workload, June 30, 1969	13	16
Total removed from workload, June 30, 1969	10	15
Federally-aided low rent housing	1	4
Other publicly aided low rent housing	0	0
Federal rent supplement housing	0	0
Standard private housing not reported above	8	5
Substandard housing	0	1
Whereabouts unknown	0	0
No move required	1	1
Moved out of the city	0	3
Unable to evict	0	1
In workload, end of period	3	1
Evicted to date	0	0



A DRAMATIC EXAMPLE OF FACE IN ACTION

FRONT VIEW OF RESIDENCE
AFTER REHABILITATION

In 1967, the FACE Program commenced operations in four San Francisco neighborhoods, one of which included the single-family residence pictured here.

The owners of this residence are a pleasant and cooperative middle-aged couple with thirteen children. The husband, struggling with a physical handicap, held down two jobs while attempting to pay off two mortgages on their home. One mortgage was due at the end of 1967, but the family's financial situation was such that financing would be necessary and at a much higher rate of interest. At the same time, the house was suffering the ravages of age, and its value was rapidly diminishing. The wife tried to manage the big sixty-year-old house with its old-fashioned kitchen, insufficient heat, and badly sagging living room floor. Adequate storage space was lacking and there was only one bathroom for the entire family. Financial pressures, and a deteriorating home with an inefficient living arrangement had disheartened this 50-year old couple. In 1967, when the FACE Program reached their neighborhood, seven children were still living at home and life had become very hectic for the family.

Enter the FACE Inspector. His detailed inspection of the house revealed that over \$10,000 worth of work would be required to bring the building back to standard. The FACE inspector advised the couple as to the best way to accomplish the necessary work and helped them find a competent contractor. He also introduced them to a FACE Loan Officer who could assist them in financing the work, as well as refinancing the mortgages. A loan was subsequently arranged which provided enough money to repair all the building's structural deficiencies, level the living room floor, paint the house inside and out, improve the heating system, modernize the kitchen and add a downstairs bathroom. It was like a dream come true. The new FACE 3% loan covered more than this \$13,000 worth of work; it also absorbed both high interest mortgages.

Subsequent visits to this home have revealed a greatly improved family situation: a good mother who is again able to be a good housekeeper and a father who now feels optimistic about the family's future. They are proud and delighted with their modernized, attractive and clean home and enthusiastic about keeping it that way. They are very grateful for the FACE Program which so changed their lives.



KITCHEN: LOOKING EAST

BEFORE



AFTER



ENTRY: LOOKING EAST

BEFORE



AFTER

PUBLIC IMPROVEMENTS

Current FACE Areas:

In addition to revitalizing neighborhoods through home rehabilitation assistance, the FACE Program also offers a program of public improvements designed to enhance and modernize the FACE neighborhoods. Included are improvements to streets, pavement, sidewalks, lighting, trees, signs and traffic signals. A total of \$968,437 was approved for such improvements by HUD in the program budget; this figure has been increased to \$1,181,416 for the original four areas in the amended budget, although current estimated total costs run somewhat below this figure. (See chart below.)

Progress, by cost figures, of the public improvement projects in the current FACE areas is as follows:

Type	Current Total Estimated Cost	Cost of Work in Place	Percent Complete
Streets (5280 Lineal feet)	\$ 313,000	\$199,000	65%
Curbs & Gutters (7920 Lineal feet)	23,000	12,000	52%
Sidewalks (7920 Lineal feet)	28,000	17,000	61%
Traffic Lights (11)	42,000	10,000	24%
Street Lights (114)	218,000	70,000	32%
Fire & Police Communica- tions (7)	28,000	0	0
Street Trees (480+)	84,000	0	0
Others	370,000	265,000	72%
	<u>\$1,106,000</u>	<u>\$573,000</u>	<u>52%</u>

New FACE Areas:

A total of \$541,495 is presently budgeted for similar public improvements in the three new FACE areas, increasing the total FACE public improvements budget to \$1,722,911, of which 20%, or \$322,100, is federally funded. The City's share is funded out of gas taxes and lighting bonds. The following public improvements are tentatively scheduled for the new FACE areas:



ESMERALDA STREET
(Before)



ESMERALDA STREET

(After)

Planner's sketch of new steps and landscaping

In Bernal Heights plans call for the widening of Winfield Street, and the landscaping of Cortland Avenue and Coleridge Street with city-maintained street trees. The steep paths of Esmeralda, Eugenia and Kingston Streets will be replaced by stairways and walls designed to permit development of attractively landscaped sitting and play spaces. Street lighting and underground utility wires are proposed on Cortland, Eugenia, Virginia, Bocana and Coleridge Streets.

In the Duboce Triangle, street work and beautification are planned. This includes reconstruction of 15th and Henry Streets and the narrowing of sidewalks along Noe and Sanchez Streets to provide perpendicular parking. Here too, utility wires will be buried in all the major streets. Street trees will be planted at key locations, principally along Castro, Noe and Sanchez Streets, where sitting and play areas are also being considered.

Burial of 3.04 miles of overhead utilities and installation of new street lighting are proposed for all three areas. In the Alamo Square FACE area, almost all streets will get underground wiring and improved street lighting. In addition, tree plantings will be made along Fulton, Fell and Fillmore Streets. Portions of Webster and Grove Streets will be reconstructed.

All public improvements are to be installed prior to July 1, 1972.

FUTURE FACE PROGRAMS

As enthusiasm for the program grows many neighborhoods are requesting Federally Assisted Code Enforcement as a means of carrying out neighborhood plans for upgrading. Among these neighborhoods are Haight-Ashbury, Ocean View, Page-Laguna, Bernal Heights (second phase) and Alamo Square (second phase). Future applications will no doubt include one or more of these as the City seeks to effectively arrest deterioration.



CORTLAND STREET
(Before)



CORTLAND STREET
(After)

New street lighting, tree planting, and undergrounded overhead utility wires.



15th STREET AT NOE
(Before)



15th STREET AT NOE
(After)

New street lighting, tree planting, and undergrounded overhead utility wires.

COMPLAINT SECTION

All reports of Building Code violations outside FACE Areas are directed to the Complaint Section of this Division for processing. The source of these complaints may be from other Divisions of the Bureau, as well as from the public. Each complaint results in a detailed inspection by a Complaint Inspector and action is taken as necessary to ensure correction of the violations or possible condemnation proceedings against the property in violation. Particular emphasis is placed on those violations which present health or safety hazards to the community. After each inspection, the inspector prepares a detailed report on the violations present; this report is sent to the property owner, and is the basis for further consultation between property owner and inspector as to the best course to take in correcting existing deficiencies. Investigations of all complaints are conducted in such a manner as to protect the interests of both the property owner and the tenant.

Through the efforts of this Section, 139 substandard buildings were brought up to Code in Fiscal Year 1969, a process which eliminates a contribution to neighborhood blight and contributes to the enhancement of the community.

COMPLAINT ACTIVITIES FOR FISCAL YEAR 1969*

Complaints logged	526
Initial inspections	238
Buildings found in compliance	4
Sent to Condemnation Hearing	128
Ordered Condemned	36
Referred to City Attorney	40
Appeal to Abatement Appeals Board filed	150
Decisions rendered	118
Appeals withdrawn	15
Referred to Court	3
Buildings restored	139
Buildings demolished	77
Families or individuals displaced	0

*Includes former Unassisted Conservation Areas, de-designated during Fiscal Year 1969

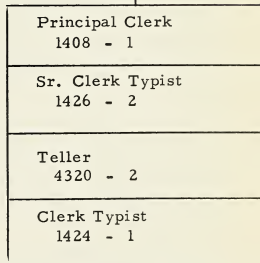
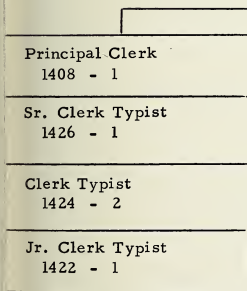
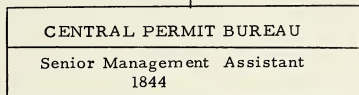
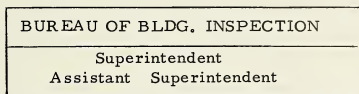
PROJECT REHABILITATION INSPECTIONS

Two Building Inspectors work full-time on a work order to the San Francisco Redevelopment Agency to perform inspections related to the rehabilitation of buildings in the Yerba Buena Center, A-2, Hunters Point, Butchertown and Bayview Projects. 295 inspections were made during 1968-69, including 50 inspections in the Hunters Point, Butchertown, Bayview areas, related to the Model Cities Program project.

RELOCATION HOUSING INSPECTIONS

Two Environmental Health Inspectors are working on work order full-time for the Central Family Relocation Service administered by the San Francisco Redevelopment Agency. During 1968-69, 2,052 inspections were made in the Yerba Buena Center and A-2 projects, revealing 1601 standard and 451 substandard units.

DEPARTMENT OF PUBLIC WORKS
CENTRAL PERMIT BUREAU
ORGANIZATION CHART
JUNE 30, 1970



Forms & Supplies
Cancellations and
Refunds
Personnel Records
Certificates of
Occupancy
Refundable Deposits
Application Registration

Receipt & Processing
of Permit
Applications
Permit Issuance
Research

Cash Receipts and
Accounting
Statistics & Reports
Street Address
Numbers
Plan Files
Posting of Notices
Permit Files

CENTRAL PERMIT BUREAU

Clyde Volens - Senior Management Assistant

Effective July 1, 1968, administrative control of the Central Permit Bureau was assigned to the Bureau of Building Inspection.

The Central Permit Bureau and the Bureau of Building Inspection are mutually faced with the problems of controlling and preserving building records, and the need for improving the availability of these records for inspection or reproduction.

FUNCTIONS

The principal function of the Central Permit Bureau is the issuance of all permits under the jurisdiction of the Department of Public Works and the collection of appropriate permit fees and deposits. Included are permits covering each aspect of the erection alteration, demolition and moving of buildings; permits for all types of billboards and signs; permits involving the use of excavations of streets and sidewalks; and all plumbing gas appliance and electrical permits.

The Central Permit Bureau receives applications for the various types of permits and routes them to appropriate agencies for processing. When the applications are properly approved, the staff collects necessary fees and deposits and issues the permits.

The Central Permit Bureau is the custodian of public records relevant to permits issued by the Department of Public Works and of all plans and specifications approved in conjunction with those permits. These records date back to the 1906 Earthquake and are assuming more importance each year in determining the status of buildings affected by our urban renewal program.

THE FOLLOWING TABLES ILLUSTRATE THE SCOPE OF THE ACTIVITIES OF THE
CENTRAL PERMIT BUREAU

TABLE I
PERMITS ISSUED AND FEES RECEIVED

	1968-69		1967-68	
	Permits	Fees	Permits	Fees
Buildings	12,073	\$ 363,620	12,844	\$ 347,191
Application Filing Fees	9,554	(above)	9,927	(above)
Billboard	21	45	58	50
Demolition	524	5,685	390	4,105
Boiler Installation	182	1,703	212	1,624
Boiler Inspection	775	6,503	722	5,246
*Street Space	689	128,492	853	110,431
House Numbers	349	1,672	383	1,454
House Moving	15	135	32	640
House Moving Investigation Fee	22	440	26	390
Excavations (Pub. Util., etc.)	15,624	31,248	16,310	32,620
*Excavations and Curbs (other)	430	2,896	423	2,634
Flue Contractors Registration	7	140	89	1,740
Flues	1,275	2,484	1,275	2,303
Posting Notices	299	711	317	779
Flower Markets	48	1,620	48	1,551
Advertising	3	541	8	1,457
Surveys	11	8,675	16	9,950
Engineering Inspections	60	28,979	114	35,112
Electrical Installation Inspections	9,898	258,075	9,841	245,812
Sign Installation Inspections	2,044	4,174	2,397	4,964
Electrical Sales Inspections	2,476	31,439	2,525	31,967
Plant Owner's Registration	49	588	13	156
Plan Checking	2,827	162,068	2,889	173,217
Garage Door Coupons	575	1,725	625	1,875
Hearings for Code Variances	12	120	61	610
Hearings for Substitute Materials	3	450	6	900
Plumbing Fixture & Gas Appliance				
Installation & Inspection	7,728	159,737	8,891	141,844
Journeyman Plumbers License	765	1,530	1,388	2,776
Gas Appliance Dealer	58	580	47	470
Residential Inspection Reports	6	490	9	595
Residential Record Reports	5,656	27,920	5,341	26,645
Dump Permits	2	50	-	-
Blasting Permits	10	120	6	12
Sidewalk Permits	1,319	11,224	1,495	14,994
Sub-Sidewalk Space	2	10	55	-
Debris Box	11,436	22,873	-	-
TOTAL - TABLE I	86,827	\$ 1,268,762	79,636	\$ 1,206,114
TOTAL - TABLE II	2,396	375,032	2,781	412,491
TOTAL - TABLE III		\$ 10,278,389		14,088,370
GRAND TOTAL - PERMITS & RECEIPTS	89,223	\$ 11,922,183	82,417	\$15,706,975

*Permits and Fees only. See Table II for Refundable Deposits.

TABLE I I
PRIVATE TRUST FUND DEPOSITS

REFUNDABLE DEPOSITS	1968-69		1967-68	
	Permits	Deposits	Permits	Deposits
Street Space	*	\$ 14,830	*	\$ 19,068
Sub-Sidewalk	24	2,960	55	34,310
Deposit on Plans	1,746	66,065	2,244	107,850
Excavations	*	2,200	*	1,159
TOTAL	1,770	\$ 86,055	2,299	\$162,387

*Street Space and Excavations require both a fee and a deposit. Amounts shown are deposits only.

PARTIALLY REFUNDABLE DEPOSITS

Side Sewers	363	\$244,434	303	\$218,017
Side Sewers - Excess Costs	113	13,707	44	6,883
TOTAL	476	\$258,141	347	\$224,900

AGENCY DEPOSITS

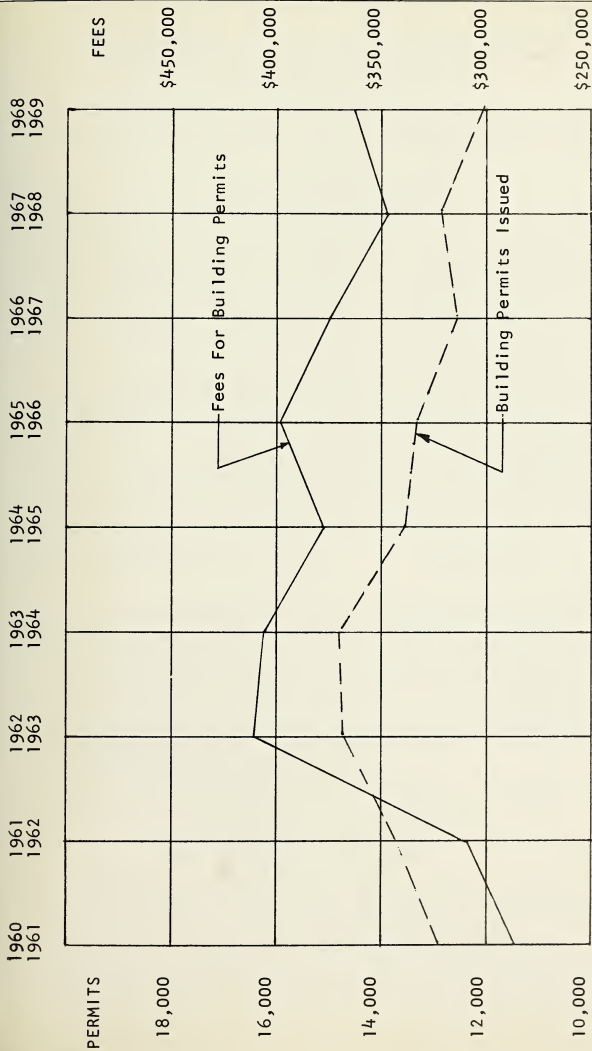
Street Improvement Bonds	150	\$ 30,836	135	\$ 25,204
TOTAL TRUST FUND DEPOSITS	2,396	\$375,032	2,781	\$412,491

TABLE I I I
OTHER RECEIPTS

	1968-69	1967-68
General Fund	\$ 1,220,357	\$ 3,766,080
Special Gas Tax - Street Improvement Fund	5,373,876	6,435,833
Road Fund	3,669,936	3,817,962
1954 Sewer Bond Fund		13,191
State Highway Trust Fund	13,040	10,735
Palace of Fine Arts Trust Fund		44,569
Real Property Fund	1,075	
Off-Street Parking Fund	105	
TOTAL OTHER RECEIPTS	\$10,278,389	\$14,088,370

TABLE I V
STATEMENT OF CONDITION - PRIVATE TRUST FUNDS
As of June 30, 1969

	Balance June 30, 1968	Deposits 1968-69	Refunds 1968-69	Balance June 30, 1969
Excavation	\$ 3,217	\$ 2,200	\$ 1,205	\$ 4,212
Street Space & Sub-Sidewalk	269,779	17,790	94,705	192,864
Plans and Specifications	24,016	66,065	65,855	24,226



CORRELATION - BUILDING PERMITS AND FEES

ORGANIZATION RELATIONSHIPS

MAINTENANCE - REPAIR - OPERATION

1968 - 1969



SUMMARY

Total Personnel Allowance.....1,428
 Total Budgeted, plus Interdepartmental.....\$16,885,723

MAINTENANCE AND OPERATION BUREAUS

Arvid H. Ekenberg,

Assistant Director of Public Works, Maintenance and Operations

GENERAL

All maintenance and operational functions of the Department are centered in four Bureaus, respectively Water Pollution Control, Street Repair, Street Cleaning and Planting, and Building Repair. Following sections of this report indicate the functional and organizational relationships of the various Bureaus, which have a total of 1,228 employees.

For several years total personnel of the Maintenance and Operations Bureaus has remained relatively constant, with all apparent additions due to the transfer of functions and personnel from other City agencies, or occasioned by temporary increases due to fluctuations in the interdepartmental work load. The latter component, financed by interdepartmental work orders, varies not only monetarily but also in the composition of the work force which is required; i.e., whether the work is primarily painting, plumbing, carpentry, etc.

The past year has again been one of rapidly escalating salaries and wages and concomitant decreases in available man-hours caused by the ever increasing proportion of workers on a 7 hour work day in lieu of the previous 8. Budget increases to date have not been sufficient to lessen the growing gap in productivity which this has caused, and we are becoming increasingly concerned over the subtle erosion of maintenance levels which ensues. The diminution of maintenance does not, perhaps unfortunately, always show up as immediate and dramatic problems; its slow and insidious inroads, however, lead inevitable to ever more costly repairs or replacements.

During the year, a contractual pickup service of street debris cans was initiated in the segment of San Francisco bounded by Market Street on the south, Van Ness Avenue on the East, and the Bay on the remainder. Results have been most gratifying, and it is hoped that the service can be expanded to include all of the City as

soon as funds can be made available.

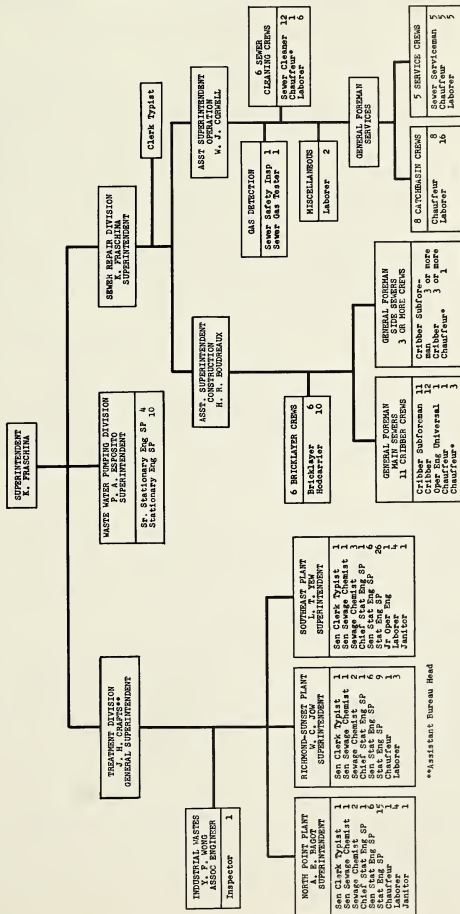
EXPENDITURES

Expenditures by Maintenance and Operation Bureaus amounted to \$14,331,331 from budgeted appropriations and \$2,045,292 from funds received by work order, or a total of \$16,376,623. A breakdown of expenditures and per capita costs follows:

	Total Expenditures	Per Capita Cost (Based on a Population of 715,609 Recorded By Federal Census of 1960)
Street Repair	\$ 2,704,688	\$ 3.779
Water Pollution Control	3,609,750	5.044
Building Repair	6,099,477	8.523
Street Cleaning and Planting	3,962,708	5.537
TOTAL	\$16,376,623	\$22.884

CITY AND COUNTY OF SAN FRANCISCO
JUNE 30, 1969

JUNE 30, 1969



Equipped with truck

Assistant Bureau Head

BUREAU OF WATER POLLUTION CONTROL

K. Fraschina, Superintendent

The Bureau of Water Pollution Control maintains 900 miles of sewers, controls industrial wastes discharge to sewers, and operates 18 active and one standby pumping stations and 3 treatment plants. During 1968-69 the Bureau had 230 budgeted employees, supplemented by 6 to 10 non-budgeted employees and 5 hired trucks with drivers in the Sewer Repair Division, and 4 maintenance personnel assigned from other bureaus and departments in the treatment plants.

The name of the bureau was changed from Bureau of Sewer Repair and Sewage Treatment by order of the Director of Public Works on July 1, 1968 to more nearly describe the nature of the bureau.

The Bureau spent \$3,643,175 in budgeted funds as follows:

PERSONAL SERVICES	Wastewater Treatment	Wastewater Pumping	Sewer Repair
Permanent Salaries*	\$530,003	\$64,027	\$131,715
Overtime*	998	346	2,988
Holidays*	9,762	2,393	1,713
Temporary Salaries*	2,314	2,066	
Wages (Per Diem)	803,147	125,119	1,153,268
Sub-Total	1,346,224	193,951	1,289,684

CONTRACTUAL SERVICES

Power & Gas**	122,543	36,914	
Plant Equipment	84,442	22,093	
Field Equipment	5,520	1,357	38,063
Sludge Disposal	33,623		
Landscape Maintenance	21,504		
Miscellaneous Services	6,048	1,073	11,854
Hired Trucks			64,930
Sub-Total	273,680	61,437	114,847

MATERIALS AND SUPPLIES

Replacement Parts	48,906	2,269	971
Field	1,005		48,109
Plant	21,449	2,539	
Fuels and Lubricants	2,924	898	12,080
Treatment Chemicals	177,441		
Sub-Total	251,725	5,706	61,160

EQUIPMENT

New	376		
Replacement	6,752	3,328	34,305
Sub-Total	7,128	3,328	34,305
Total	\$1,878,757	\$264,422	\$1,499,996

* Monthly Employees

** In Public Utilities Commission budget

In addition, the Sewer Repair Division expended \$126,035 for side sewers paid for by property owners and \$1,949 on work orders from other departments. The Wastewater Treatment Division received \$1,694 for advisory services to other departments.

SEWER REPAIR DIVISION

The Division cleans, repairs, and makes minor additions to main sewers, side sewers, and related structures; test sewers for oxygen deficiency and for explosive and toxic gasses; and controls mosquitos in catch basins.

The Division has 109 budgeted employees, 6 to 10 non-budgeted employees (20 are authorized) for side sewer installation and repair paid for by property owners, and 5 hired trucks with drivers. The low number of side sewer employees continuing from last year is a reflection of reduced activity in residential building construction during the year. Work units or groups are as shown in the organization chart. Details of unit functions, methods of operation and equipment used are the same as described in the 1965-66 Annual Report. While many of these groups frequently assist each other, the material trucks, digging unit, and compressor unit are almost entirely subsidiary as their principal function is to assist other units. The Bureau received 6,472 telephone complaints in the year. The activities of the work units are summarized in the Work and Cost Distribution table. The following table shows the work done by the service units:

Sewer Repair Division
Work and Cost Distribution

Work Unit	Work Done	% of Time	Total Cost (a)	Unit Cost (a)
1 Sewer Cleaning	735,750 Linear ft cleaned	87.2	\$139,896	\$0.19
	Other work	12.8	19,146	\$159,042
2 Eductor Operations	13,401 Catchbasins cleaned	77.9	158,910	11.86
	Other work	22.1	66,590	225,500
3 Services	6,472 Complaints serviced	54.8	100,277	15.49
	Other work	45.2	86,072	186,349
4 Main pipe sewers	5,604 Linear ft repaired at 439 locations		292,299	52.16
5 Brickwork	10,495 Linear ft brick sewer repaired	74.7	124,513	11.86
	1 Catchbasin constructed	0.2	345	345.00
	4 Manholes constructed	1.5	2,573	643.25
	277 Catchbasins repaired	11.6	18,209	65.74
	283 Manholes repaired	12.0	19,049	67.31
6 Gas detection	3,419 Manholes tested	17.1	3,273	0.96
	Other work	82.9	15,879	19,152
7 Miscellaneous			68,042	68,042
	Total budgeted work		\$1,115,073	
8 Work orders (b)			1,949	
9 Side sewers (c)	129 Installations		87,337	677.03
	180 Repairs		77,836	432.42
	17 Connections		1,500	166,673
Grand Total			1,283,695	

(a) Costs do not include supervision, overhead or other indirect charges.
 (b) Repairs for other bureaus or departments.
 (c) Paid for by property owners.

SIDE SEWER	No. calls	Percent	
Relieved clogged sewer	3,518	18.6	
Found trouble inside property	459	2.5	
Wet down backfill	174	0.9	
Determine if side sewer exists	359	1.9	
Found side sewer broken	345	1.8	25.7
	4,855		
MAIN SEWER			
Found main sewer broken	423	2.2	
Relieved clogged main sewer	473	2.5	
Examine condition	3,883	20.5	
Wet down backfill	146	0.8	26.0
	4,925		
CATCHBASINS AND MANHOLES			
Remove obstruction	529	2.8	
Replace cover	385	2.0	
Silence noisy cover	444	2.4	
Examine condition	914	4.8	12.0
	2,272		
MISCELLANEOUS			
Service lights and barricades	4,627	24.5	
Investigate seepage and leaks	256	1.4	
Clean pump stations	192	1.0	
Deliver materials to job	345	1.8	
Remove deposits on sidewalk	7	0.0	
Depressions not sewers	1,208	6.4	
Not classified	228	1.2	36.3
	6,863		
Total	18,915		100.0

Two major sewer failures occurred during the year, both involving old 3 ft x 5 ft brick sewers. In the first, a 10 ft section of the Jackson Street sewer west of Kearny Street collapsed on April 11, 1969. The Pacific Gas & Electric Company and the Division of Traffic Control assisted in handling the gas leaks and traffic problems encountered. Repair of the sewer and pavement restoration were completed by April 15. In the second, a 10 ft section of the Sutter Street sewer west of Sansome Street collapsed on May 10, 1969. As this happened on Saturday, no major traffic problems were encountered and the sewer was reconstructed on May 11 and the street repaved May 14.

The hydraulic jet sewer cleaning machine mentioned in last year's report was placed in service October 7, 1968. It is very efficient and versatile, and can remove grease, sand, gravel, and other debris from pipe sewers up to 18 in. diameter faster and more effectively than has been possible with the methods and machines heretofor available. The 35.2% increase in lineal feet of sewer cleaned over last year can be largely attributed to this machine. More of these units will be requested in future annual budgets.

WASTEWATER PUMPING DIVISION

The Division has 15 budgeted employees and operates and maintains 18 stations in continuous operation, and one standby station in the Lake Merced area which was operated four times during the year. Although total expenditures increased 8%, over last year, the cost per million gallons pumped decreased by 6%. The decrease in unit cost was caused by 16% increase in quantity pumped, attributed mainly to increased rainfall over last year and, to a lesser extent, to increased leakage through tide gates and greater ground water discharges to the sewer system from redevelopment activities.

Operation of the Fitzgerald Avenue station was discontinued February 11, 1969 on completion of the Bancroft-Griffith interceptor system which diverts the flow directly to the Yosemite Avenue station by gravity. All salvageable equipment was removed from the station by March 17, and the property transferred to the Real Estate Department for disposal on May 12.

The Fourth Street North station was out of service from September 6 to September 20, 1968, and from May 4 to May 19, 1969 for a total of 31 days because of breaks in the force main from the station. Both breaks occurred at joints in the main and appear to have resulted from failure of the joint filling material which allowed corrosion of the underlying metal. The breaks were difficult to repair because of heavy traffic in the area and high ground water in the excavation. The repairs were made under direction of the Bureau of Engineering under emergency procedure.

With the exception of the Tennessee Street station, the stations are designed to handle normal dry weather flow plus runoff from 0.02 in. per hour rainfall. The Lake Merced station is equipped with variable speed pumps. Pump speed is varied to match flow by a combination of electrical controls and pneumatic sump level sensors. The other stations are equipped with fixed speed pumps. The pumps operate intermittently in various combinations to match incoming flow. Pump operation is controlled by switches which function at fixed sump levels. At 15 stations the switches are operated by floats. At the Fourth Street South and Twentieth Street stations the switches are operated by pneumatic level sensors. Automatic influent throttling gates at Drumm Street, Fourth Street North, Lake Merced, Marina, Sea Cliff No. 2 and Yosemite Avenue stations allow operation at full capacity during storms.

Stations are serviced 24 hours per day, 7 days per week by roving crews. In addition, the Sea Cliff No. 2, Marina and Drumm Street stations each have one man assigned full time five days per week. The Marina and Sea Cliff No. 2 stations require more attention due to age and critical areas served. The Drumm Street station still receives considerable construction debris which must be removed promptly from the sump during the work week.

Major operating problems during the year were caused by the following:

Lift pump motor bearing and shaft failure at Marina station.

Excessive check valve wear at Fourth Street North station.

Frequent malfunction of electrical-pneumatic control system at Lake Merced station.

Malfunction of hydraulic gate control systems at Drumm Street, Fourth Street North and Sea Cliff #2 stations.

Other major maintenance was as follows:

Dried out and serviced both pump motors, starters and electrical control system after complete flooding of Tennessee Street station during a storm.

Completely overhauled five pumps in five stations.

Repaired check valves at Hunters Point and Sea Cliff #2 stations.

Repaired influent and effluent line hydraulic gate cylinders at Drumm Street & Fourth Street North stations.

Waste Water Pumping Stations
Expenditures and Cost Data

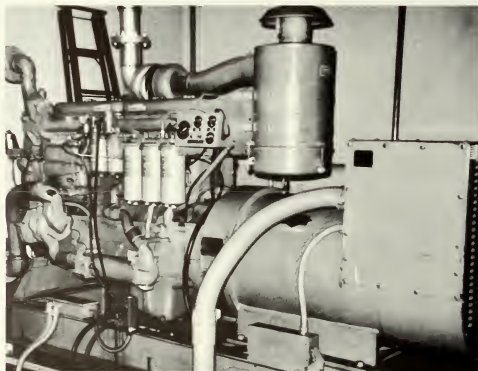
Location	Drainage Area In Acres	Million Gallons Pumped	Salaries	Main- tenance	Power	Materials & Supplies	Totals	Cost Per Mil Gal Pumped
General (a)			\$8,431	\$1,373	\$5	\$1,111	\$14,248(b)	\$1.39
Drumm Street	332	1,521	14,841	1,769	4,163	784	21,557	14.17
Fitzgerald Avenue (c)	30	68	7,418	188	543	9	8,158	119.97
Fourth Street North	138	2,615	14,842	5,366	5,881	971	27,060	10.35
Fourth Street South	25	81	1,855	156	541	37	2,589	31.96
Fulton Street	82	101	7,420	530	877	87	8,914	88.26
Hunters Point	90	147	11,131	403	878	14	12,426	84.53
Hyde Street	14	82	7,420	681	397	38	8,536	104.10
Lake Merced	930	688	22,262	1,543	4,094	285	28,184	40.97
Marina	1,125	2,474	25,973	6,548	6,750	1,232	40,503	16.37
Mariposa Street	117	261	12,990	397	1,606	23	15,016	57.53
Palace of Fine Arts	2	12	1,855	30	411	7	1,933	161.08
Park Merced (d)			3,710	130	1,387		5,227	
Pinelake	3	5	1,855	289	204		2,348	469.60
Sea Cliff #1	4	3	1,855	313	63		2,231	743.67
Sea Cliff #2	84	119	12,990	659	2,527	151	16,327	137.20
Tennessee Street	2	21	1,855	427	170	62	2,514	119.71
Twentieth Street	27	73	1,855	361	630	154	3,000	41.10
Vicente Street	52	57	7,420	348	552		8,320	146.00
Yosemite Avenue	1,277	1,959	25,973	3,012	5,605	741	35,331	18.04
Totals	4,334	10,287	\$193,951	\$24,523	\$36,914	\$5,706	\$264,422	\$25.70

(a) Power bills for 24th Avenue & Lake Street gate included in General costs (Power and Light).

(b) Includes \$3,328 for equipment in addition to other expenses.

(c) Discontinued operation February 11, 1969. Flow diverted to new gravity line.

(d) Maintained as standby for 212 acres tributary to Lake Merced Station.



Emergency generator at Drumm St. Pumping station

Repaired sand pump at Fourth Street North station.

Repaired hydraulic lines at Drumm Street & Marina stations.

Repaired vandalism damage consisting of exterior painting, door work and door lock replacement at two stations.

TREATMENT DIVISION

The division operates and maintains the North Point, Richmond-Sunset and Southeast Water Pollution Control plants, controls industrial waste discharges, makes field sanitary surveys and advises other City departments on sewage treatment facilities under their jurisdiction.

The division has 106 employees distributed as shown in the organization chart, supplemented by four employees assigned from the Bureau of Building Repair. Major repairs and maintenance requiring specialized crafts are done by work order to other Public Works bureaus and the Purchaser's shops, or by contract with private firms. Funds are transferred to the Bureau of Street Cleaning and Planting for care of landscaping.

Methods used to provide primary treatment are described in the 1965-66 annual report. Treatment activity is summarized in the accompanying Treatment Plant Operation table. Cost of operation was approximately \$2.51 per capita, based on an estimated tributary population of 750,000.

At the Richmond-Sunset plant, contract work to increase the capacity of the influent channels and bar racks commenced in June, 1969.

At the Southeast plant, the additional gas compressor for digester No. 7 gas recirculation noted in the last annual report was received in June, 1969. This will be installed in conjunction with a gas recirculation improvement contract for digesters No. 8 and No. 9 which will be awarded early next fiscal year. Contracts for the extension of the outfall line to the bay and the effluent booster pump station which commenced in fiscal year 1966-67 were completed in June 1969. The appearance of Islais Creek improved immediately after plant effluent was diverted from the creek outfall to the bay outfall. The water supply and steam lines improvements contract started March 1968 was completed in September 1968. During the year, plant forces installed one 8,000 lb/day chlorinator, together with associated evaporator and accessories to double chlorination capacity.

At the Southeast plant also, work started on two major improvements contracts: one, in April 1969 to increase digested sludge filtration capacity and the other, in May 1969 to increase influent main lift pump capacity and reshape main lift pump sumps to eliminate deposition of grit and sludge. When one-half of the main lift station was taken out of service it was found impossible to continuously operate the remaining half consisting of one bar rack, pump sump and two main lift pumps. Repeated bar rack failures occurred which were caused by grit deposition in the sump behind the bar rack. Using emergency procedures, a flow control baffle was installed in the sump and two 1,000 gpm submersible pumps discharging to the grit tanks, were installed behind the bar racks. The submersible pumps, in addition to removing most of the grit continuously, also made it possible to schedule dewatering of the sump and hosing grit away from the bar racks three times daily without bypassing to the bay. It is expected this procedure will be effective until construction on the other half of the lift station is complete.

Replacement and reconstruction of major units with over 15 years service continued for the third year. The accompanying photograph shows two new chlorinators at the North Point plant. These chlorinators together with associated evaporators and other accessories installed at an equipment cost of \$17,550 and one effluent filter purchased for \$11,000 replaced units in service at the North Point plant since December 1951.



New chlorinators at North Point Water Pollution Control Plant

Treatment Plant Operation

	North Point	Richmond-Sunset	Southeast
Sewage Flow, million gallons			
Total (a)	24,480	7,957	6,512
Avg day	67.4	21.8	18.7
Avg day, dry weather (b)	61.4	20.8	18.5 (c)
Max day, wet weather	130.3	34.8	27.4
Max day, dry weather	74.3	22.9	24.7
Max rate, wet weather	167	46	39
Max rate, dry weather	108	38	39
Screenings, cu ft			
Total	57,404	28,529	33,367 (d)
Max day	480	143	621
Per million gallons	2.3	3.6	5.1
Grit, cu ft			
Total	63,278	35,800	(d)
Max day	756	343	
Per million gallons	2.6	4.5	
Chlorination, lb (e)			
Pre	499,580		
Post	1,634,280	641,000	1,616,370
Total	2,133,860	641,000	1,616,370
mg per liter dry weather	12.7	10.9	38.1
Sludge Solids, M lb (dry)			
From sedimentation	28,806		23,502 (f)
To digesters		7,363	40,932
Filter cake		1,775	13,383 (g)
Ferric Chloride			
Total, lb		70,080	540,400
% filter cake solids		3.90	4.04
Gas Production, M cu ft			
Total		66,008	224,023
Avg day		181	615
Power and Gas purchased			
Power, total M kwh	5,884.8	2,268.0	4,858.8
Power, avg/mo, M kwh	490.4	189.0	404.9
Natural gas, total therms	84,577	22,325	2,144
Natural gas, avg/mo, therms	7,048	1,860	179
Hauling			
Trips, grit & screenings	676		303
Trips, grit		257	
Trips, filter cake to parks		529	

- (a) For 364.8 days North Point; 364.2 days Richmond-Sunset; 347.9 days Southeast.
- (b) Excluding days with .01 inch or more rain and dry days following days with .05 inch or more rain.
- (c) Excluding days flow partially bypassed for reconstruction or malfunction.
- (d) Combined screenings and grit; discharged into common storage bin.
- (e) Prechlorination as needed for odor control at North Point. Postchlorination continuous at North Point and continuous except during storms at Richmond-Sunset and Southeast.
- (f) Includes recirculating load from sludge processing overflows. Decrease from prior year due to reduction of recirculating load.
- (g) On wet basis: 20,500 tons hauled to sanitary fill.

Major maintenance included the following:

NORTH POINT PLANT

Bar racks: Installed air diffuser plates in the channel behind rack No. 1 to prevent grit deposition. Replaced floor grating in front of racks No. 1 and 4.

Grit system: Replaced conveyer screw and trough in tank No. 3. Replaced collector chain in tank No. 4. Replaced return rail and wearing shoe system in tanks No. 1, 2, and 4 with return chain idler sprockets.

Sedimentation system: Replaced chain and other sludge collector parts in one-half of tank No. 5. Rebuilt scum trough drive mechanism in all six tanks.

Ventilation: Rebuilt exhaust fan in Sedimentation Building No. 1. Installed new intake filters for air supply fans in Pretreatment and Administration Buildings.

RICHMOND-SUNSET PLANT

Boilers: Replaced burners and renewed safety valves on all three boilers, and renewed fire controls on one boiler.

Digestion system: Rebuilt walkways and platforms on roof of 100 ft tank and in basement of control building.

Grit system: Resurfaced floor and renewed chain and other collector parts in tank No. 2.

Sedimentation system: Installed gate valves in place of plug valves in draw-off lines of four tanks to permit cleaning of lines with a special pipe cleaning device without taking tanks out of service. Altered sludge hoppers to improve draw-off. Rebuilt tank inlet baffles to reduce vibration of effluent weirs.

SOUTHEAST PLANT

Boilers: Replaced the two draft fan steam turbine drives with electric motor drives.

Chlorination system: Rebuilt one 8,000 lb/day evaporator.

Digestion system: Emptied and cleaned two digesters, one in preparation for gas recirculation improvement contract and the other to maintain digester capacity.

Digested sludge filtration system: Overhauled one 15,000 cfm vacuum pump. In filter cake conveyer system, replaced belt in section from filter building to cake storage hopper and drip pans in filter building.

Sedimentation system: Renewed chain and other sludge collector parts in tank No. 4.

Structures: Sandblasted and painted exteriors of the five group 2 digesters, digester control house No. 2, the waste gas burner structure and the filter cake storage hopper.

Each treatment plant makes continuing sanitary surveys of ocean and bay waters and beaches adjacent to its tributary area in accordance with self monitoring programs required by the State Regional Water Quality Control Board. In addition, each plant is now responsible for checking the condition of critical diversion structures in its drainage district whenever survey data indicates abnormalities.

The foregoing work plus essential process control comprises the major portion of staff and laboratory workload. However, the division does make special studies and investigations to improve operation, furnish data for the Bureau of Engineering, assist other divisions of the bureau and advise other City departments.

Special work included the following:

COMPLETED:

Evaluation of grit separation by straight tube cyclones.

Evaluation of the effects of various amounts of preaeration and short circuiting on effluent settleable matter.

Comparison of sodium hypochlorite solutions with liquid chlorine for effluent disinfection.

Evaluation of coliform, fecal coliform and enterococcus survival in bay waters.

CONTINUING:

Correlation of operating procedure with settleable matter concentration in effluent.

Evaluation of polymer coagulants and flocculants.

Studies to improve disinfection including pH effect on bacterial kill at given residuals and better correlation of chlorinator control with effluent bacterial quality.

INDUSTRIAL WASTES SECTION

The Industrial Waste section of the Division has two budgeted employees and inspects industrial plants to check waste discharges for compliance with the industrial waste ordinance.

During the year, 2,923 routine inspections were made and 760 complaints were investigated and resolved. A total of 1,534 waste samples were taken by the section and analyzed either by the section or the treatment plant laboratories.

During the year, several industrial firms installed or improved the following waste facilities:

Installation of screen and settling basin at one poultry packing plant.

Installation of screens and gravity separators at BART construction sites at 7th & Market Streets, 16th & Mission Streets, and Bosworth & Diamond Streets.

Rerouting of drainage lines from dehairing area to holding sump at one tannery and wool processing plant.

Rerouting drainage lines into rotating skimmer tank at one meat rendering plant.

Installation of finer mesh screens in rotating screen at one meat rendering plant.

Installation of screens and settling basins at one paint manufacturing plant.

Additional fine mesh screens at one barrel washing plant.

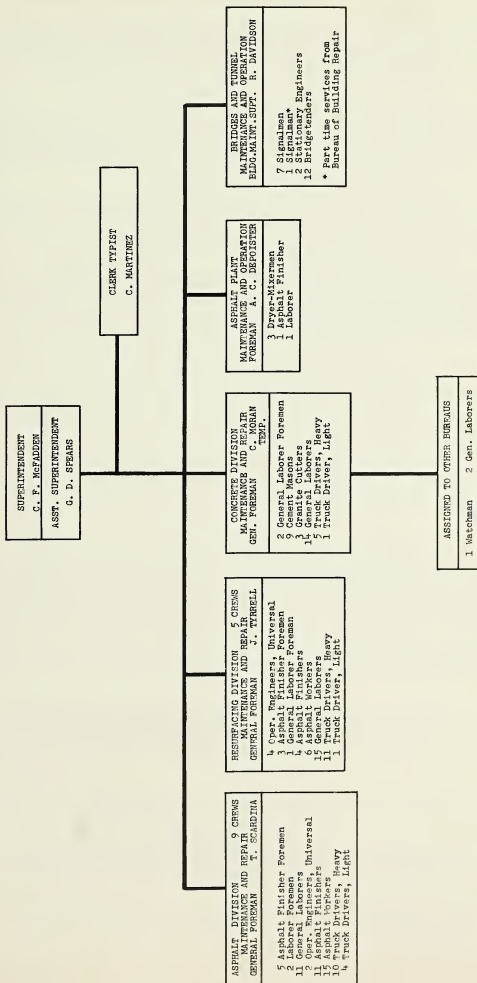
Installation of wind barrier to stop white lime and other fine materials from blowing into Channel Street waterway.

ORGANIZATION CHART

BUREAU OF STREET REPAIR

CITY AND COUNTY OF SAN FRANCISCO

JUNE 30, 1969



BUREAU OF STREET REPAIR

C. F. McFadden, Superintendent

FUNCTIONS

The functions of the Bureau of Street Repair continue to be substantially as stated in previous reports:

"Routine work includes the maintenance and repair of streets and appurtenant structures such as gutters, curbs, retaining walls, public stairways, pedestrian underpasses and overpasses, guard rails and fences; the maintenance of City dumps; the maintenance and operation of lift bridges, tunnels and a pumping station in the Geary Street underpass at Fillmore Street.

"Work performed for other departments or bureaus includes the repair of pavement in the Municipal Railway track areas, the repaving of trenches opened by the Bureau of Sewer Repair for the installation or repair of side sewers, the repair of certain state highways within the City and the repair of pavements in school yards of other City institutions. The Bureau also performs other minor services of varied nature.

"The City's charter provides that the repair or reconstruction of any job shall not exceed a cost of \$5,000. It also provides work on unaccepted streets, except in emergency, and on sidewalks in front of private property. Unaccepted streets are those streets that have not been properly improved and officially accepted for maintenance and repair by the City.

"Activities are further limited by State law (The Collier-Burns Highway Act of 1947 as amended) governing the expenditure of monies from which the bureau is financed."

Maintained road mileage is as follows:

Select System (Comprised of Major Arterial Streets, Collector Streets and other roads)	842.81 miles
State Highways (By maintenance agreement)	10.32 miles

TOTAL

ORGANIZATION AND PERSONNEL

The only significant change during the year was the replacement of a hired truck and driver by a civil service driver and City owned dump truck. Otherwise the basic organization of the Bureau remained the same.

Mr. John Rhodes, General Foreman, retired October 31, 1968, having served in the Bureau four years. As of June 30, 1969 there has not been an examination to fill this position.

An organization chart as of June 30, 1969, accompanies this report.

SUPERVISION

No changes were made in the Bureau's supervisory force, which is composed of a superintendent, assistant superintendent, three general foreman, asphalt plant foreman and the part-time services of a building maintenance superintendent who oversees the maintenance and operation of three lift bridges, a pumping station and the Broadway Tunnel.

The Bureau's safety program is under the direction of the assistant superintendent.

EQUIPMENT

New equipment procured during the year consisted of a Rola-Tape measuring wheel and a Ford F-600 dump truck.

The new Ford Dump truck was acquired to replace the last remaining hired truck in the Bureau. The truck has a 3 yard body with 4 yard ends, and a watertight tailgate and binders. It will be used for hauling barricades, lights and material for our concrete crews.

Equipment replacement units received during the year were as follows:

- 2 - 4-6 cubic yard dump trucks, Ford
- 2 - 6-8 cubic yard dump trucks, Ford
- 1 - Crew and tool truck, International
- 1 - Automobile, Chevrolet
- 3 - Asphalt handrollers
- 2 - Pickup trucks, 3/4 ton, Fords
- 1 - Chicago Pneumatic pavement breaker

Replacement units are quite similar to the units replaced.



SAWCUTTING SIDEWALK FOR TREE PLANTING



HEATER-PLANING BEFORE STREET RESURFACING

MAJOR WORK PERFORMED

	<u>Unit</u>	<u>Quantity</u>	<u>Total Cost</u>	<u>Unit Cost</u>
Asphalt Resurfacing - Hand Asphalt Paving	Sq. Ft.	361,869	\$ 59,334	\$.1639
(159.4 sq. ft. per ton)	Tons	2,512		20.620
Asphalt Resurfacing - Machine Asphalt Paving	Sq. Ft.	4,614,187	340,053	.0736
(156.2 sq. ft. per ton)	Tons	28,955		11.744
Asphalt Resurfacing - Box Asphalt Paving	Sq. Ft.	634,171	113,462	.1789
(97.1 sq. ft. per ton)	Tons	6,532		17.371
Asphalt Patching	Sq. Ft.	642,716	248,619	.386
(170.6 sq. ft. per ton)	Tons	3,768		65.981
Asphalt Paving (Cut-outs)				
Compressor Work	Sq. Ft.	170,492	43,262	.253
Asphalt Paving	Sq. Ft.	223,883	60,295	.269
(89.8 sq. ft. per ton)	Tons	2,491		24.20
Cleanup	Sq. Ft.	223,883	62,380	.278
Curb Reset and Replaced				
Compressor Work	Lin. Ft.	25,417	45,481	1.789
Granite Reset	Lin. Ft.	16,649	37,744	2.267
Granite Replaced	Lin. Ft.	2,130	5,992	2.813
Concrete Reset	Lin. Ft.	618	1,325	2.144
Concrete Replaced	Lin. Ft.	13,627	67,399	4.946
Pavement-Asphalt	Sq. Ft.	20,054	18,143	.904
Pavement-Concrete	Sq. Ft.	2,923	6,140	2.100
Sidewalk	Sq. Ft.	15,179	30,233	1.992
Cleanup			68,175	

MAJOR WORK PERFORMED (Cont'd)

	<u>Unit</u>	<u>Quantity</u>	<u>Total Cost</u>	<u>Unit Cost</u>
Concrete Curb Repair			\$ 11,025	
Curb Yard				
Redress Granite	Lin. Ft.	3,182	13,371	4.202
Sort, Move, Etc.			15,039	
Total	Lin. Ft.		28,410	8.928
Crack Sealing				
Sealing	Lin. Ft.	1,067,376	109,670	.1027
Cleanup			32,937	
Total			142,607	.1336
Concrete Pavement Repaired	Sq. Ft.	2,066	2,219	1.074
Sidewalk Reconstructed	Sq. Ft.	58,324	67,895	1.164
Heater Planing	Lin. Ft.	292,627	82,010	.280
Slide & Debris Cleanup			64,951	
State Highways			8,678	
Work for other Bureaus & Departments			93,418	

MUNICIPAL ASPHALT PLANT

Asphaltic mixtures produced at the Municipal Asphalt Plant during 1968-1969 were as follows:

COMPOSITION - %

<u>Mix Designation</u>	<u>Tons</u>	<u>Asphalt</u>	<u>#6</u>	<u>5/16"</u>	<u>5/8"</u>	<u>1 1/4"</u>
Surface	2,747	8 1/2	91 1/2			
School	5,241	7	60	33		
Topeka	39,112	6	45	25	24	
Spreader	648	5 1/2	40	25	17 1/2	12
Binder	125	3 1/2	21	28	22 1/2	25
Cold	185	*	35 1/2	27 1/2	30	

Total 48,058

* 1% asphalt and 6% Pacific specification 300 fuel oil

Aggregates were screened into "hot bin" from a combination of Antioch (fine graded) sand, coarse graded sand and three sizes of gravel. Asphalt used was 60-70 penetration, paving grade.

Production costs for the 48,058 tons produced during the year were as follows:

Direct Labor	\$ 64,008.14	or	\$ 1.33 per ton
Indirect Labor	2,899.15	or	.06 per ton
Overhead	16,225.67	or	.34 per ton
Materials	189,367.56	or	3.94 per ton
Gas, Electricity, etc.	16,541.94	or	.34 per ton
Total	\$289,042.46	or	\$6.01 per ton

All maintenance work and worn part replacement was done during slack work days or on Saturdays with the following exceptions:

On Monday, December 23, 1968, it was necessary to shut down the plant and replace the mixer discharge door with a new ni-hard door.

On Thursday, January 2, 1969, the plant was down in order to install a new steam coil in the asphalt weigh bucket.

During the month of June 1969, the dust cyclone, cold elevator, dryer, asphalt piping and the west side of the aggregate storage bins were painted by the Bureau of Building Repair, as a contractual Service, at a cost of \$1169.



CLEANING UP WINDBLOWN SAND ALONG OCEAN BEACH

BRIDGES TUNNELS AND UNDERPASSES

The City's three bascule type bridges, the Broadway Vehicular Tunnel and the pumping facilities in the Geary Expressway Underpass have all been described in detail in previous reports.

There were two bridge mishaps of consequence during the year. In January 1969, the highest tide in over ten years caused water to enter the leaf locks at the south end of the 3rd and Channel Bridge shorting our the electrical control circuit. The bridge was out of operation for about 24 hours. On June 20, 1969, the S. S. Preveza, while passing through the Islais Creek Bridge, scraped the north leaf and sheared several rivets. The ship was going through stern first without the aid of tug boats, which were not available due to a strike.

Bridge openings during the past year and the previous five years were as follows:

<u>Year</u>	<u>Third Street</u>	<u>Fourth Street</u>	<u>Islais Creek</u>
1968-69	1726	1447	340
1967-68	2179	2010	628
1966-67	2662	1769	456
1965-66	1907	1365	478
1964-65	1866	1627	287
1963-64	2100	1697	391



CONTROL PANEL AND CO RECORDING CHARTS AT BROADWAY TUNNEL

Statistics regarding the Broadway Tunnel ventilation, lighting and traffic are as follows:

Ventilation - Blower Operating Time

Year End- ing June 30	<u>North Bore Westbound Traffic</u>				<u>South Bore Eastbound Traffic</u>			
	<u>Slow</u>		<u>Fast</u>		<u>Slow</u>		<u>Fast</u>	
	Hours	Percent	Hours	Percent	Hours	Percent	Hours	Percent
1969	357.1	4.08	69.0	.79	346.0	3.95	46.7	.53
1968	165.5	1.89	9.4	.10	138.2	1.57	86.4	.98
1967	152.0	1.73	10.1	.11	130.0	1.48	91.4	1.04
1966	173.3	1.97	12.6	.14	48.8	.56	27.8	.32
1965	497.8	5.68	16.5	.19	73.1	.83	29.5	.34

Lighting - Lamps Replaced

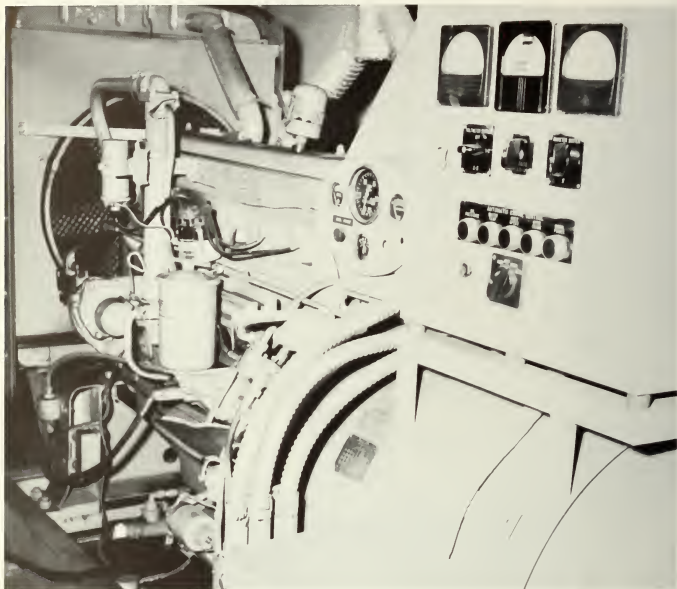
	<u>Occurrences</u>	<u>72T8's</u>	<u>72T12's</u>	<u>Total</u>
Lamps in Service		1004	332	1336
Replaced During Year	1	455	75	530
Previously Replaced	56	8108	649	8757
Totals (Since Dec. 1952)	57	8563	724	9287

Traffic Counts

		<u>Eastbound</u>	<u>Westbound</u>
Wednesday	March 12, 1969	14, 241	12, 291
Thursday	February 9, 1967	13, 841	11, 841
Tuesday	March 3, 1964	11, 589	10, 723
Tuesday	December 15, 1959	12, 216	10, 359
Thursday	July 10, 1958	11, 144	9, 478
Wednesday	March 16, 1955	10, 609	9, 795
Wednesday	February 11, 1953	8, 668	8, 770

The tunnel was put into service December 1952.

The Geary Expressway Underpass pumping station at Fillmore Street was described in the report for the year ending June 30, 1963.



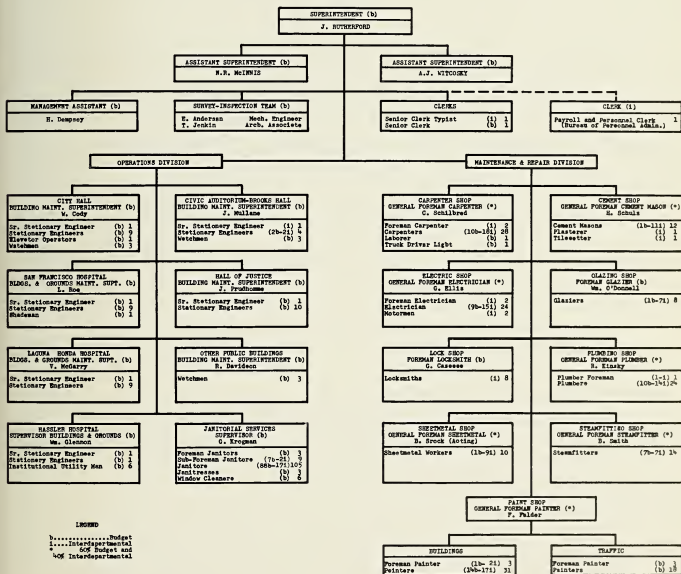
STANDBY MOTOR GENERATOR AT GEARY UNDERPASS PUMPING STATION

The station continued to operate satisfactorily during the year with one exception. The two check valves on the discharge lines are showing considerable wear and will be overhauled during the coming year.

ORGANIZATION CHART

BUREAU OF BUILDING REPAIR

JUNE 30, 1969



LOGGING

```

b.....Budget
1....Interdepartmental
*      60% Budget and
      40% Interdepartmental

```

BUREAU OF BUILDING REPAIR

J. Rutherford, Superintendent

With a work force averaging 439 employees consisting of over 50 different classes and an annual expenditure of \$5,631,385.00, this Bureau is the largest and most diversified of the maintenance and operation units.

FUNCTION

The Bureau's primary function is to maintain and repair 330 public buildings as well as provide operation and / or janitorial services for 112 of these buildings. In addition, maintenance and repairs are performed for other departments by means of a budget transfer or interdepartmental work order procedure. A significant portion of this work was performed for the following departments:

1. School Department with over 135 school buildings.
2. Recreation and Park Department with over 300 buildings and structures.
3. War Memorial, de Young Museum, Legion of Honor, Public Utilities, etc.
4. Bureau of Engineering:
 - a. Street Traffic painting and maintenance of street signs.
 - b. Maintenance and repair of street structures, sidewalks and traffic control devices.

ORGANIZATION

As indicated by the organizational chart, the work force is nearly evenly divided between operational and maintenance functions.

The Operation Division consists of 196 budgeted positions which include janitors, window washers, stationary engineers, and watchmen who are assigned to various buildings and institutions.

The Repair Division consists of 203 building trade mechanics representing 12 different crafts. 86 of these are permanent budgeted positions. The remaining 117 positions are classified as inter-

departmental and are filled on an "as needed" basis depending upon the work load and availability of funds.

The Administrative Division consists of a Superintendent and a staff of 7 which performs the required administrative functions of planning, budgeting, accounting, payroll and personnel. The Engineering and Architectural Team makes frequent inspections of the physical plant in connection with the Bureau's preventive maintenance program and is responsible for all contract work. During the year, 94 contracts totaling \$119,491.00 were awarded on a competitive basis, as shown in Figure 4.

INTERDEPARTMENTAL WORK

A major portion of interdepartmental work was generated by the School Department. During the year, 15,552 requisitions were completed for miscellaneous school repairs which averaged 61 requisitions per work day. Of this total 3,579 were emergency requisitions requiring immediate response. 41.1% of all requisitions cost \$25.00 or less and 82.4% were completed at a cost of less than \$100.00. The interdepartmental overhead for all work averaged 46.37% as compared with 45.01% for the previous year. The overhead consists of items over which the Bureau has little control such as retirement, workmen's compensation, sick leave, vacations, supervisions, etc.

SIGNIFICANT CHANGES

"Chaos in the Construction Industry" is the way Engineering News-Record describes the inflationary spiral of wage and material increases during the year. Recent construction wage increases range from 15% to 30% while productivity declined 0.3% a year (ENR 4/24/69). This Bureau has, what are quite possibly, the world's highest paid construction mechanics. It is difficult to see how this trend can continue indefinitely.

Along with the unprecedented wage and material increases, the tax crisis has resulted in substantial reductions in Replacement and Reconstruction appropriations for the second year in succession which necessitated substantial reduction in the work force.

The Building Superintendent and staff at the San Francisco General Hospital have concluded a very productive, if hectic, year

in maintaining a continuously expanding plant while simultaneously devoting much time and energy on detail of planning plant facilities for the new hospital.

PROBLEMS AND PROGRESS

The single most vexing problem is how to carry on with an adequate maintenance and repair program in view of unprecedented increases in cost of labor and material and substantially reduced appropriations. The easy expediency of again "deferring" maintenance will inevitably lead to far more major and expensive reconstruction and replacement cost in the future.

Several new public facilities were completed and assigned to this Bureau's responsibility including:

Health Center No. 5, 1351 24th Avenue, a two-story structure of 17,400 square feet costing approximately \$802,339.00.

Anna E. Waden Branch Library, 3rd and Revere Streets, a beautiful, new permanent building which replaced old and inadequate rented quarters.

Southeast Effluent Booster Pump Station rated at approximately 80 million gallons per day which eliminates pollution of Islais Creek

In respect to the safety program, Mr. Jack Prudhomme and his staff at the Hall of Justice are to be congratulated on reaching a record of 972 workdays on June 30th without a single lost time injury. We are confident that this crew will establish a record of 1,000 days sometime in early August.



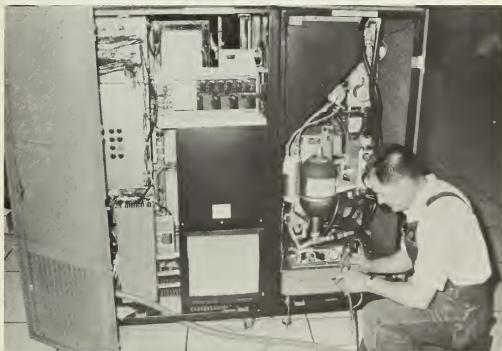
Mr. Thomas J. Mellon, Chief Administrative Officer, presents Safety Award for 1000 days without lost time industrial injury to the Building Maintenance crew at Hall of Justice. Accepting the award, (l to r), Anthony Marelich, Electrician, Jack Prudhomme, Supt., and John Rutherford, Supt., Bureau of Building Repair.



GLAZIERS INSTALL UNBREAKABLE FIBERGLASS
AND LEXAN WINDOWS AT
LONGFELLOW ELEMENTARY SCHOOL



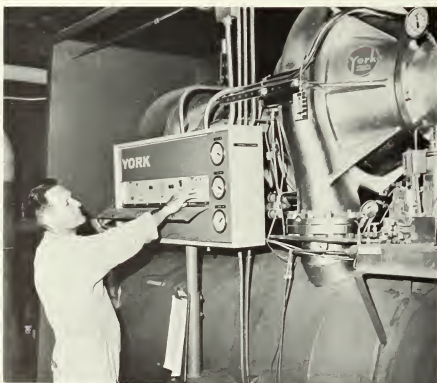
OVERHAUL OF 400 K W TURBINE
AT LAGUNA HONDA HOSPITAL



CHECKING TERMINALS ON NEW SYSTEM 360 COMPUTER AT CITY HALL
BUILDING REPAIR ABOVE



SUSPENDED ON HIGH RANGER,
PAINTERS APPLY PROTECTIVE COAT
TO CIVIC CENTER FLAG POLES.



ROUTINE TEST OF AIR CONDITIONING EQUIPMENT AT CIVIC AUDITORIUM

**PUBLIC BUILDINGS UNDER THE JURISDICTION OF THE DEPARTMENT
OF PUBLIC WORKS FOR MAINTENANCE AND REPAIR**

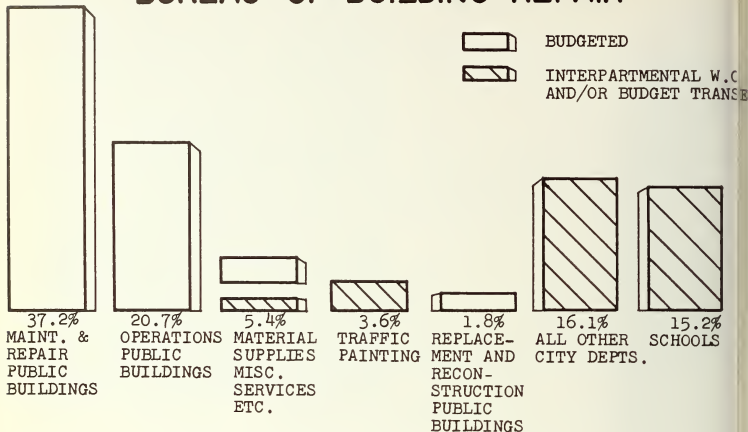
<u>Department</u>	<u>No. of Bldgs.</u>	<u>Total Sq. Ft.</u>	<u>Approx. Exp. per Bldg.</u>	<u>Unit Cost per Sq.Ft.</u>
Fire Department	61	614,000	\$ 140,107	\$.228
Juvenile Court				
Hidden Valley Ranch	4	42,712	5,237	.123
Log Cabin Ranch	16	32,000	17,154	.536
Youth Guidance Center	17	202,330	60,192	.297
Police Department (Stations)	10 (C)	101,293	27,800	.274
Hall of Justice	1 (C)	580,500	104,601	.180
Public Health				
Emergency Hospitals	5	33,352	8,247	.247
Hassler Hospitals	18 (C)	130,000	70,496	.542
Health Center Bldgs.	6 (C)	171,550		
and Health Centers	2 (R)	5,900	38,724	.218
Laguna Honda Hospital	25 (C)	650,000	288,224	.443
San Francisco Genl. Hosp.	33 (C)	753,000	409,837	.544
V.D. Center	1 (R)	6,200	2,806	.452
Public Library	23	341,943		
	6 (R)	9,405	95,326	.124
Public Works				
City Hall (Inc. Pwr. Plant)	2 (C)	526,540	157,548	.299
City Hall Annexes	3 (C)	37,190	3,931	.105
450 McAllister St.	1 (C)	56,460	14,942	.264
Maintenance Yard	9 (C)	72,890	27,059	.371
19th. Ave. Garage	1	4,400	1,215	.276
Water Pollution Treat.Plants	35	543,330	115,832	.213
Water Pollution Pumping Div.	18	23,325	10,226	.438
Real Estate				
Civic Aud./Brooks Hall	2	435,400	87,674	.201
Sheriff				
County Jails #2 and #4	7	138,970	78,983	.568
Social Services				
150 Otis St.	2 (C)	40,900	18,114	.442
585 Bush St.	1 (C)	43,791	11,768	.268
1680 Mission St.	1 (C)	40,000	6,083	.152
S.M.R.C. - Redwood City	1	10,000	3,521	.352
Miscellaneous Departments	<u>19</u>	<u>230,594</u>	<u>35,031</u>	<u>.108</u>
	330	5,877,975	\$1,840,678	\$.309 Avg

NOTES

(R) Indicates buildings that are rented. (Total of 9 buildings with a combined floor space of 21,505 square feet.)

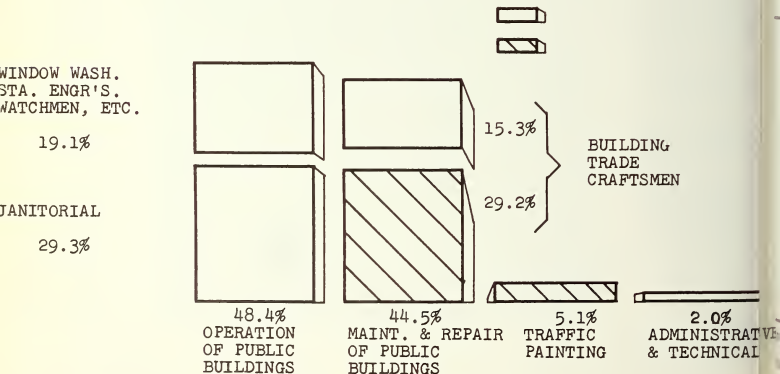
(C) Indicates custodial and/or operational services also provided by the Bureau of Building Repair.

BUREAU OF BUILDING REPAIR



PROPORTIONAL EXPENDITURES OF ALL FUNDS

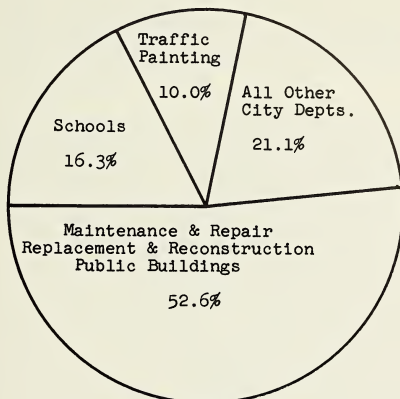
FIGURE 1



PERSONNEL ASSIGNMENT

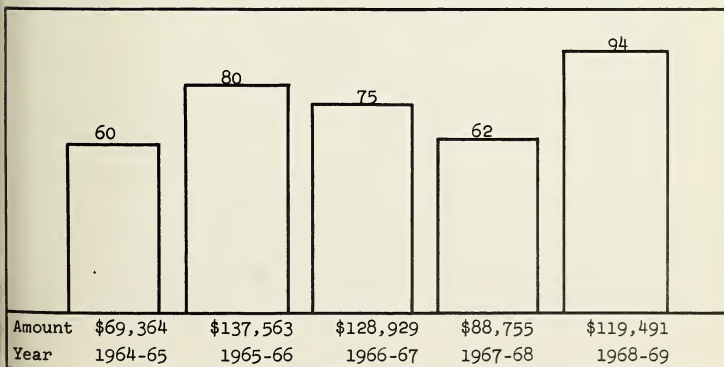
FIGURE 2

BUREAU OF BUILDING REPAIR



ASSIGNMENT OF BUILDING
TRADES PERSONNEL
(203 Employees)

FIGURE 3



INFORMAL CONTRACTS AWARDED 1964-65 THRU 1968-69

FIGURE 4

ORGANIZATION CHART

BUREAU OF STREET CLEANING AND PLANTING

CITY AND COUNTY OF SAN FRANCISCO

JUNE 30, 1969

SUPERINTENDENT

ASST. SUPERINTENDENT

STREET CLEANING DIVISION

CLERK-TYPIST

- Gen. Foreman (A)
- 1- Personnel Assignments
 - 2- Complaints
 - 3- Requests for service
 - 4- Streets & Civic Functions
 - 5- Utility Trucks (8 men)
 - 6- Employee Work-Training Program
 - 7- Safety Program
 - 8- Driver Training

- Gen. Foreman (B)
- 1- Motor Sweeping (10 Routes)
 - 2- Motor Flushing (10 Routes)
 - 3- Front End Load. (3 Units)
 - 4- Super., Layout & Maintenance (20 Sweepermen gags)
 - 5- 1st. & 6th. Rts. Truck Drvs. 20
 - 6- Lumpers 12

- Gen. Foreman (C)
- 1- Gang Sweeping (8 Gangs)
 - 2- Litter Control - Routes (10 Routes)
 - 3- Super., Layout & Maintenance (20 Sweepermen gags)
 - 4- 1st. & 6th. Rts. Truck Drivers 20
 - 5- Sweepers 116
 - 6- Sweepers 116

- Gen. Foreman (D)
- 1- Waste Receptacles (Placement, Maint., Removal)
 - 2- Parking Lot Super.
 - 3- Weed Control (1 man)
 - 4- Litter Patrols (2 men)
 - 5- Night Cleaning
 - 6- Night Operations

- Gen. Foreman (E)
- 1 - Blockmen (Sweepers)
 - 2 - (4 Routes)
 - 3 - Super.; Layout & Maintenance (20 Sweepermen gags)
 - 4 - 1st. & 6th. Rts. Truck Drivers 20
 - 5 - Sweepers 116
 - 6 - Sweepers 116

NORTH POINT PLANT
RICHMOND-SUNSET PLT.
SOUTH-EAST PLANT
2 Gardeners

SPACE TREAT.
PLANTSPARKING LOT
LANDSCAPINGHEALTH
DEPARTMENT

Sub-Foreman

HASLER
HEALTH HOME
LAGUNA HONDA
CITY HOSPITAL
SAN FRANCISCO
GEN. HOSPITAL
10 Gardeners

PLANTING DIVISION
SUPERVISOR

GEN. CLERK-STENO

INSTT. LANDSCAPING

Foreman

ST. PLANTING

3 Sub-Foreman

Landscaped Boulevards
Traffic Islands
Freeway Interchanges,
Etc.

2 Truck Drivers
24 Gardeners

BUREAU OF STREET CLEANING AND PLANTING

Bernard M. Crotty - Superintendent

Major responsibilities of the Bureau of Street Cleaning and Planting are: cleaning 1,730 curb miles of improved streets and 110 curb miles of traffic islands and the maintenance of over 240 acres of landscaping and 13,000 sidewalk trees.

Subsidiary functions assigned to the Bureau include cleaning, landscape maintenance and physical maintenance of 15 neighborhood off-street parking lots; regular cleaning of the tile surface of the Broadway and Stockton Street vehicular and pedestrian tunnels; cleaning and inspection of 10 vehicular and pedestrian underpasses; and cleaning 215 public stairways. The Bureau is also responsible for yard cleaning at the main corporation yard at Army Street. Our garage and service yard at 2350 - 19th Avenue and Planting Division tool room at Sunset and Sloat Boulevards are also Bureau responsibilities. From time to time other City agencies and departments found it expedient to engage our services such as cleaning City College roads and the Hall of Justice parking lot. The Bureau also is responsible for weeding and rubbish removal on many acres of City owned land and unimproved street areas. For these functions the Bureau has 380 employees in both divisions and 80 units of motorized equipment which traveled 578,929 miles. Records of the three major cleaning functions may be found on succeeding pages.

RADIO

The Department of Public Works radio K. M. E. 327 which is under supervision of this Bureau logged 23,248 calls through 49 mobile units.

COMPLAINTS

Requests for service and complaints totaled 2,455. With minor exceptions these calls were answered within an hour by a crew or supervisor dispatched by radio.

WEED ABATEMENT

The Street Cleaning Division currently has 263 sites for whose weeding and cleanup it is responsible; this number is subject to change as sites are put up for sale to private buyers or as previously unreported sites become current on the complaint list. The sites vary in size from small plots of a few square yards to unimproved street right-of-ways of two or three or more blocks in length which must be serviced before a fire hazard develops

either from excessive weed and grass growth or from accumulated trash; incidence of the latter, unfortunately, is high in certain areas of heavy weed or tall grass growth or in dense stands of finocchio. To the extent that we can keep ahead of such growth, we, incidentally (and fairly effectively), eliminate the hidden dumping sports favored by the more determined of the litterbugs. (See accompanying photos).

Some sites, due to sparse growth or unfavorable terrain (rocky or sandy, hard clay, etc.), require attention only every other year. Others, subject to more lush and rapid growth, actually require cleaning off in the spring and again in the summer, midsummer to late autumn when the growth is dry and especially combustible. Herbicides have been applied in an attempt to stem growth - success in this endeavor has not been uniform, but the application of weed killers will continue as a supplement to the weeding-by-tools program. Each is necessary, each complements the other. In calendar 1968, 124 sites were weeded and the herbicides "Simazine" or "Zep", or both, if indicated, were applied to 30 sites.

To date (June 30) in calendar 1969, 54 sites have been weeded, the herbicides applied to 62 sites and there is a total of 74 sites waiting to be weeded.

WORK LOAD

During the past 10 years this Bureau has experienced a tremendous increase in work load and erosion of productive work time.

The reasons are many but principally are as follows. They are present-ed not necessarily in order of importance as such determination would be difficult. Although any one by itself could have been assimilated collectively they become so oppressive as to cause a serious breakdown in production and efficiency.

ADDITIONAL STREET MILEAGE

In 10 years time from 1960 to the present our street mileage has increased by 4.96% from 824 to 865 miles. Our traffic islands or dividers have increased 5.76% from 104 to 110 miles.

WEED ABATEMENT

Approximately 10 years ago the Bay Area Air Pollution Control Board started vigorously enforcing the ban on open burning. Up to that time weeds on vacant land and unimproved streets considered a fire hazard were burned under controlled conditions by the Fire Department. (Details of this activity in preceding paragraph.)



Vacant city land showing thick weed growth which must be removed by hand labor



Typical unimproved street area (slope near stairs) After weeds cleared by hand labor.

INCREASED LITTER

There are numerous reasons for and sources of this modern phenomenon. Major sources are unsolicited advertising leaflets, handbills and so-called newspapers for which no charge is made. Another major source of litter is the slovenly methods used by too many thoughtless people for disposal of their rapidly growing share of waste, mainly paper and plastic in the form of product containers or wrappings. There is no reliable yardstick to measure the increase in the amount of street litter over the last 25 years; however, one can readily see that litter, comparatively speaking, has nearly inundated urban areas in this time span.

LIBERALIZED EMPLOYEE BENEFITS

In 20 years annual vacations have doubled and in the last 10 years they have increased 33 - 1/3%. In addition, sick leave allowances have recently increased by 20%.

DECLINE OF PRODUCTION

In the past 30 years there has been a noticeable decline in human production in all facets and phases of industry and government. Fortunately for most industries, development of machinery and tools has plugged the productive leaks in the industrial dam. However, in street cleaning this decline in production has not been offset by mechanical substitutes. The reasons and possible solutions to this problem could well fill several large books. Suffice it to say that this is one of several factors contributing to the critical urban problem of street dirt.

EQUIPMENT REPLACEMENT

Conservative estimates show that our fleet of street cleaning equipment would cost over \$750,000 to replace at current prices. Much of this equipment is over 10 years old and repair costs are increasing each year.

Equipment fleet supervisors and other authorities recommend replacement of units at regular intervals based on either mileage or age or a combination of these. Ideally 6 years or 60,000 miles. Some of our equipment has over 190,000 miles and units with over 100,000 miles are common. Many units are 10 up to 15 years old.

During the past 10 year period our appropriations for equipment replacement have steadily declined until the past two years when we received a total of \$9,500 which allowed purchase of 1 small dump truck. Tragically, appropriations for equipment repair were reduced to the same amount previously appropriated. This obviously did not take into account the rise in labor and parts nor the advanced age of the equipment all requiring a substantial increase in repair funds.

PERSONNEL INCREASES

In preceding paragraphs the increases in responsibilities were cited such as 5% and 5.76% respectively for streets and center islands plus a large weed abatement program. This coupled with increased employee benefits and lack of equipment replacement and further compounded by inadequate employee recruitment and replacement seriously impairs our operational efficiency.

In the face of all the increased duties we have held our street cleaning personnel to the same number we had in 1957. This was done in the hope that we could overcome the deficiencies by additional improved equipment and the retention of high standards of workmanship. Obviously this has not proved possible.

RECOMMENDATIONS

1. Adequate funds be provided for temporary replacement of employees off on vacation, sick leave or absences due to other reasons.
2. Immediate replacement of employees who quit or otherwise leave openings in our ranks.
3. Regular adequate equipment replacement program.
4. Provision of sufficient funds to institute an efficient equipment repair program.

TABLE I
DEPARTMENT OF PUBLIC WORKS
BUREAU OF STREET CLEANING AND PLANTING
CITY & COUNTY OF SAN FRANCISCO, CALIFORNIA
ANNUAL REPORT - GANG SWEEPING - FISCAL YEAR 1968-69
(Sweeping Frequencies for Gang Route Numbered)

Month	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12
1968												
July	2.20	4.60	3.67	1.83	1.46	2.45	1.17	1.46	1.53	2.44	3.14	*
August	2.50	4.40	3.66	2.55	1.46	2.30	2.20	1.57	1.64	2.33	2.85	
September	2.10	4.25	3.00	2.22	1.11	2.00	2.00	1.42	1.26	2.11	2.22	
October	2.33	4.60	4.00	1.90	1.09	2.40	2.00	1.76	1.64	2.44	2.44	
November	2.00	4.00	3.00	1.35	1.13	1.63	1.72	1.26	1.13	2.00	2.42	
December	2.37	4.50	4.00	2.00	1.40	2.00	2.50	1.46	1.61	2.33	2.57	
1969												
January	2.57	4.40	5.00	2.11	1.15	2.33	2.50	1.67	1.29	2.44	2.22	
February	2.57	4.00	5.00	2.11	1.26	2.00	2.50	1.53	1.58	2.00	2.22	
March	2.62	4.20	4.00	2.62	1.40	2.22	2.75	1.61	1.61	2.33	2.62	
April	2.67	4.00	3.67	2.20	1.46	2.33	2.30	1.60	1.46	2.44	2.33	
May	2.22	4.20	3.50	2.56	1.42	2.33	2.71	1.75	1.69	2.22	2.75	
June	2.38	4.20	2.22	2.33	1.05	2.33	2.00	1.40	1.64	2.22	2.11	
TOTALS	28.71	51.35	44.72	25.78	15.39	26.32	26.35	18.49	18.08	27.30	29.89	

Working
Days per
Cleaning

9. 5. 6. 10. 17. 10. 14. 14. 14. 9. 8.

NOTE: Each gang is under supervision of a labor foreman and is composed of 4 to 6 hand-sweepers with a truck crew of 1 chauffeur and 2 laborers. Length of each route varies from 66 to 270 curb miles.

* Gang #12 is weeding gang.

TABLE 2
DEPARTMENT OF PUBLIC WORKS
BUREAU OF STREET CLEANING AND PLANTING
CITY & COUNTY OF SAN FRANCISCO, CALIFORNIA
ANNUAL - REPORT - MOTOR SWEEPING - FISCAL YEAR 1968-69
Disposition of **14 Sweepers (Hours)

| Month | Curb
Miles
Swept | Sweeper
Loads
(Number) | Sweeping | Downtime* | Total
Work-Day
Hours | Downtime*
(Percentage) | Average Number
of Sweepers
In Operation |
|-----------|------------------------|------------------------------|----------|-----------|----------------------------|---------------------------|---|
| 1968 | | | | | | | |
| July | 5,249 | 266 | 1,441 | 1,307 | 2,748 | 47.55 | 7.87 |
| August | 4,405 | 223 | 1,251 | 1,501 | 2,752 | 54.53 | 6.82 |
| September | 5,043 | 292 | 1,410 | 1,150 | 2,560 | 44.90 | 8.27 |
| October | 4,853 | 303 | 1,472 | 1,412 | 2,884 | 48.95 | 7.66 |
| November | 4,342 | 296 | 1,335 | 1,069 | 2,404 | 44.46 | 8.33 |
| December | 4,316 | 289 | 1,342 | 1,330 | 2,672 | 49.77 | 7.53 |
| 1969 | | | | | | | |
| January | 4,590 | 298 | 1,432 | 1,328 | 2,760 | 48.11 | 7.78 |
| February | 4,177 | 283 | 1,316 | 1,204 | 2,520 | 47.77 | 7.83 |
| March | 4,990 | 347 | 1,530 | 1,150 | 2,680 | 42.91 | 8.56 |
| April | 4,975 | 288 | 1,447 | 1,313 | 2,760 | 47.56 | 7.87 |
| May | 5,189 | 296 | 1,618 | 1,054 | 2,672 | 39.44 | 9.08 |
| June | 4,670 | 258 | 1,421 | 1,227 | 2,648 | 46.33 | 8.05 |
| TOTALS | 56,799 | 3,439 | 17,015 | 15,045 | 32,060 | - | - |
| Averages | | | | | | | |
| Per Month | 4,733 | 286 | 1,418 | 1,253 | 2,671 | 46.85 | 7.97 |

NOTE: *Downtime includes all work-day time that equipment is not engaged in actual street-sweeping, such as when undergoing repairs, held for servicing or for stand-by.

**13 sweepers + 1 night sweeper = 14 sweepers total.

TABLE 3
DEPARTMENT OF PUBLIC WORKS
BUREAU OF STREET CLEANING AND PLANTING
CITY & COUNTY OF SAN FRANCISCO, CALIFORNIA
ANNUAL REPORT - MOTOR FLUSING - FISCAL YEAR 1968-69

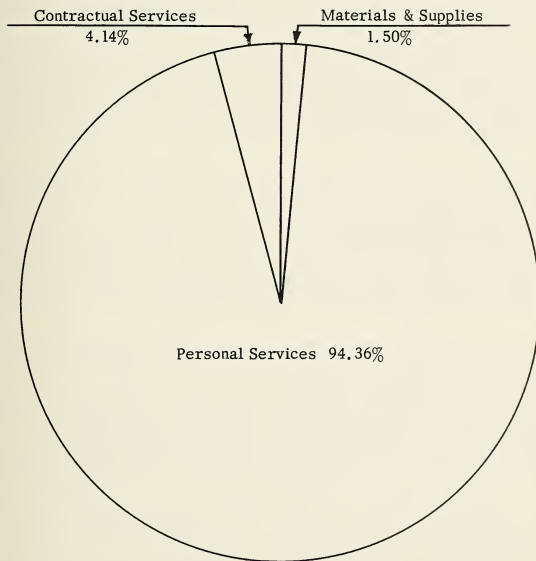
Disposition of 10 Flushers (Hours)

| Month | Curb Miles Flushed | No. of Stops For Refilling Water Tanks | Flushing | Downtime* | Total Work-Day Hours | Downtime* (Percentage) | Average Number of Flushers in Operation |
|-----------------|--------------------|--|----------------|---------------|----------------------|------------------------|---|
| 1968 | | | | | | | |
| July | 7, 284 | 3, 189 | 1, 357 | 439 | 1, 796 | 24.43 | 7.56 |
| August | 6, 766 | 2, 852 | 1, 274 | 522 | 1, 796 | 29.05 | 7.10 |
| September | 6, 998 | 3, 093 | 1, 360 | 280 | 1, 640 | 17.05 | 8.30 |
| October | 7, 573 | 3, 310 | 1, 461 | 427 | 1, 888 | 22.61 | 7.74 |
| November | 6, 004 | 2, 627 | 1, 148 | 416 | 1, 564 | 26.58 | 7.34 |
| December | 6, 065 | 2, 596 | 1, 145 | 571 | 1, 716 | 33.26 | 6.67 |
| 1969 | | | | | | | |
| January | 6, 804 | 2, 817 | 1, 290 | 506 | 1, 796 | 28.16 | 7.18 |
| February | 5, 573 | 2, 301 | 1, 079 | 549 | 1, 628 | 33.70 | 6.63 |
| March | 6, 464 | 2, 777 | 1, 214 | 518 | 1, 732 | 29.90 | 7.01 |
| April | 6, 803 | 2, 966 | 1, 297 | 495 | 1, 792 | 27.61 | 7.24 |
| May | 6, 452 | 2, 789 | 1, 233 | 487 | 1, 720 | 28.31 | 7.17 |
| June | 5, 563 | 2, 688 | 1, 152 | 556 | 1, 708 | 32.54 | 6.75 |
| TOTALS | 78, 349 | 34, 005 | 15, 010 | 5, 766 | 20, 776 | - | - |
| Averages | | | | | | | |
| Per Month | 6, 529 | 2, 833 | 1, 251 | 480 | 1, 731 | 27.76 | 7.22 |

NOTE: Each flusher is operated with 1 chauffeur and 1 laborer for handling flushing controls.

*Downtime includes all work-day time that equipment is not engaged in street flushing; such as when undergoing repairs, held for servicing, or standby or when operating on work of different nature.

BUREAU OF STREET CLEANING AND PLANTING
STREET CLEANING DIVISION
APPROPRIATION DISTRIBUTION



| | |
|----------------------|----------------|
| PERSONAL SERVICES | \$3, 370, 816 |
| CONTRACTUAL SERVICES | 147, 416 |
| MATERIALS & SUPPLIES | <u>53, 364</u> |
| TOTAL EXPENDITURE | \$3, 571, 596 |

BUREAU OF STREET CLEANING & PLANTING

LANDSCAPING & STREET PLANTING DIVISION

The Landscaping and Street Planting Division is responsible for the maintenance of the landscaping on boulevards, planted traffic islands, neighborhood parking facilities, sewage treatment plants, health centers, hospital grounds, freeway interchange areas, around some City buildings and the City street tree program.

Various landscaping and tree planting projects are from a combined program undertaken by the Department of Public Works, Redevelopment Agency, State Division of Highways, Parking Authority, Health Department and other public agencies.

The planting program has increased considerably in the last few years, more than \$600,000 being spent on new projects in the last two years. Unfortunately, adequate funds for maintenance have not been provided. Because of a drastic cut in maintenance funds it has been recommended that all new planting projects be held in abeyance until the time additional funds are provided.

The maintenance problems of the Division are compounded by the tremendous increase in moving as well as parked vehicles. They hinder the work of the gardeners in efforts to maintain the traffic islands and the thousands of street trees throughout the City. It may also be noted that landscaped traffic islands planted with attractive shrub and ground covers of low maintenance frequently require spraying to control insects and disease. The most likely answer to this phenomena is that the natural predator of the insects, the birds, does not select traffic islands for feeding. Vehicle damages to landscaped areas and to street trees is also becoming a major maintenance problem. It is costly to replace irrigation lines, shrubs, trees and their supports. In the past the City recovered some funds when reported by the Police Department and the offender was billed.

Rarely do we receive an accident report of damages even though the accidents are increasing. The expense of these repairs are borne by the Planting Division. Additional maintenance problems are also created because many planting and irrigation projects are found after acceptance to require changes in location or direction so as to adequately water the areas desired, or to require the installation of screens to prevent sprinkler head clog up because of excessive foreign material.

NEIGHBORHOOD PARKING FACILITIES

The planting Division presently maintains landscaping at twelve neighborhood parking facilities. The installation at 9th Avenue and Irving being the most recent. Another facility at 18th Avenue and Geary is presently out to contract. The Planting Division under a work order landscapes these facilities.

HEALTH DEPARTMENT PROPERTIES

The Division supervises the maintenance of the grounds at San Francisco General Hospital, Hassler Health Home, and Laguna Honda Home and also maintains health centers. The health center most recently acquired is located at 24th Avenue and Irving Street.

REDEVELOPMENT

Employees of the Planting Division are presently working with the Redevelopment Agency with recommendations, layout and planning for street trees around the Martin Luther King Project in the Western Addition and also on the South of Market Street Redevelopment.

CITIZEN'S PARTICIPATION

San Francisco celebrated its tenth Annual Plant A Tree Week in March of this year. Response by the public was greater than in any previous year. More applications for a permit and more requests for information were received during this time than any in the past. It is estimated that in the ten years this program has been conducted that some 90,000 private street trees have been added to the tree population of San Francisco. The Department of Public Works service of sawcutting the sidewalk for groups has been a great stim-

ulus to neighborhood tree planting. The Sears, Roebuck Foundation granted another \$3,000 this year for the planting of some 85 new trees in the tree exhibit along Funston Drive. The Joseph Schlitz Brewing Company provided 20 awards for various people, firms and organizations for the fifth consecutive year. Also Joseph Schlitz Brewing Company promoted the Third Annual Slogan Contest to stimulate interest in the tree planting program in San Francisco. Over 4,000 slogans were received doubling the number received in previous years. The winning slogan as selected by the judges for 1969 was "Plant Ahead".

CITY PROJECTS

Presently there are five FACE areas receiving landscaping and tree planting. Other contracts out to bid include Folsom Street from 21st Street to South of Army Street. Trees are also being planted around the Bessie Carmichael School area. Bosworth Street recently landscaped and planted with street trees has now been accepted for maintenance by this Division. Projects in the 1969-70 budget include tree planting along 3rd Street, several FACE program areas and several large traffic islands. Since planting maintenance funds for the next fiscal year are quite small, it is our hope that at least some of these new projects can be delayed in execution until adequate maintenance funds can be provided.

STREET PLANTING ADVISORY COMMITTEE

During March 1969 the Street Planting Advisory Committee held their 100th meeting. Sylvester Evans, the newly selected Chairman of the Committee, replaces Bill Siden who served as Chairman for the last ten years. Other members on the Committee include Mrs. Aurelie Brua, Messrs. Jack Spring, Thomas Chan Keith Davey, James Gordon, Samuel Jung, Victor Reiter, Hubert Schmidt and Brian Fewer. They are to be commended for the many hours that they gave to this Committee work over the years recommending the plants and design for many projects. They have also been concerned with landscaping of Market Street and submitted recommendations early in the planning stage.

EMPLOYEE TRAINING

All permanent gardeners and most temporary gardeners in the Planting Division have received two terms of instruction at City College. In addition all gardeners are further instructed in all phases of maintenance programs that the Division is responsible for.

ECONOMY IN MAINTENANCE

The Division has researched and tested various chemicals and has used these to reduce the weed problem. Flexible risers in the irrigation systems of the many traffic islands have been tested and proved to be labor and dollar savers. In most cases two man crews using a small truck are able to service and properly maintain the smaller landscaped areas as well as care for the planting and training of new street trees. A new piece of equipment, the soil shredder, has been used in developing new planting soils. The soil shredder is also used in manufacturing new soil in the Recreation & Park Department Nursery. A new pickup truck with a two-way radio has been provided to the foreman of the Planting Division. A new dump truck has been put into service enabling larger, heavier loads of soil and brush material to be hauled. Precast concrete tree basin covers have been tried and they have proven their worth. A number of these have been precast in the Cement Shop in Army Street and have been installed in various tree pits along various streets.

PILOT TREE PROGRAM

A pilot tree program has continued over the years experimenting with new species and varieties of trees whereby we develop a more comprehensive list of trees. This program will continue indefinitely.

TREE BOOKLET

The attractive booklet on recommended trees for San Francisco compiled by the Division and printed by the Bank of America is in need of review and revision. The stock of booklets on hand will be depleted before the year is out. The Street Planting Advisory Committee has appointed a sub-committee to prepare an updated edition of the booklet.



Planting Division Nursery -
Work being done by
prisoners San Bruno Jail

Neighborhood Planting Project
Instructions on planting given
by the Planting Division



Newly landscaped Neighborhood Parking Facility - 24th & Capp Street
Planted & maintained by the Planting Division



Pruning orphan plantings for site clearance increases maintenance problem.



Soil shredding machine is useful in constructing quality planting soil.



New landscape contract on Mansell Street.

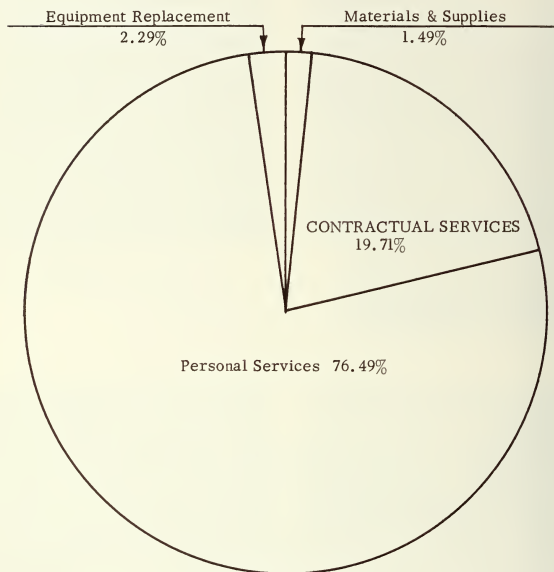


Street tree planting contract along Lake Street.

BUREAU OF STREET CLEANING AND PLANTING

STREET PLANTING DIVISION

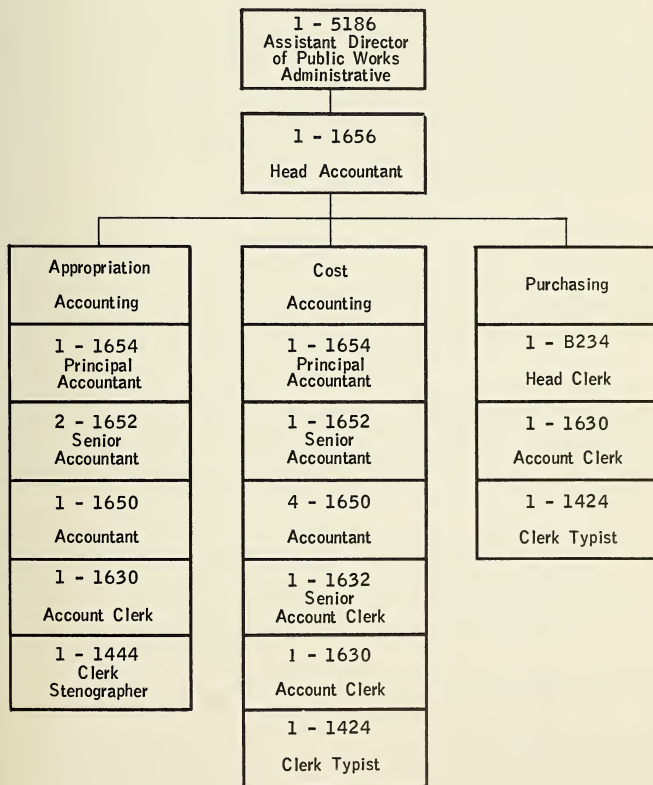
APPROPRIATION DISTRIBUTION



| | | |
|----------------------|--------|---------------|
| PERSONAL SERVICES | 76.49% | \$299, 182 |
| CONTRACTUAL SERVICES | 19.71% | 77, 116 |
| MATERIALS & SUPPLIES | 1.49% | 5, 854 |
| EQUIPMENT | 2.29% | <u>8, 960</u> |
| TOTAL EXPENDITURE | | \$391, 112 |

DEPARTMENT OF PUBLIC WORKS
BUREAU OF ACCOUNTS
ORGANIZATION CHART

JUNE 30, 1969



BUREAU OF ACCOUNTS

J. Iwamoto, Head Accountant

FUNCTIONS AND ORGANIZATION

The operating functions of the Bureau embrace control of purchase order requisitions, sub-storeroom and inventories, automotive expenditures; work order job costs and invoicing; side sewer job deposits and refund accounts; Federal, State and other trust funds, State gasoline tax subventions and bond fund accounts; capital improvement accounts for the General Fund, and Recreation and Park Department Fund; the cash revolving fund; and budget preparation and controlling accounts

This Bureau is organized as three divisions under the Head Accountant. They are Appropriation Accounting, Cost Accounting, and Purchasing. The Bureau maintains an office at 2323 Army Street to serve the Maintenance Yard bureaus and an office at 450 McAllister Street, Room 502 to serve the City Hall bureaus.

APPROPRIATION ACCOUNTING

This Division maintains accounts showing allowances, reserves, allotments, expenditures, encumbrances, and balances, for all funds under the control of this Department. These accounts form the basis of controlling all transactions to assure that funds are expended for the purpose for which they are appropriated.

In addition to maintaining all of the operating accounts, this Division handles the fiscal processing of formal contracts covering street improvements, sewers, sewage treatment plants, schools, hospitals, firehouses, recreation and park improvements, and numerous capital projects for other City Departments.

The preparation and consolidation of the annual budget is also a responsibility of this Division.

COST ACCOUNTING

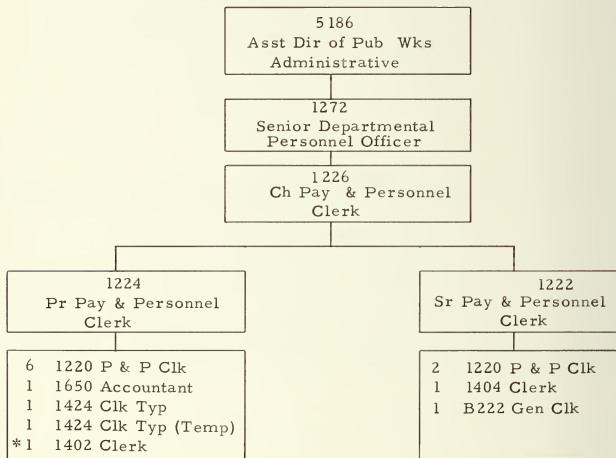
This Division maintains accounts showing allowances, expenditures by type, encumbrances, and balances for all work orders received by this Department.

In addition, job costs are maintained for many aspects of the Department's operations such as cost of traffic painting, cost per mile of highway maintenance, cost of side sewer installations and cost of asphalt production. This Division compiles costs to repair damage to City property under the jurisdiction of this Department, and forwards a bill to the responsible party. These costs amounted to \$65,041.02 for Fiscal Year 1968-69 and embraced 238 cases covering damages to automotive equipment, street structures, bridges, street signs, traffic signs, street plantings, traffic signals, traffic devices, and damages to public buildings.

PURCHASING

This Division is responsible for the supplying of equipment, materials, and supplies for the varied activities of this Department, the sub-storeroom and the material yard. During Fiscal Year 1968-1969 this Division processed 6,392 requisitions for purchase orders and/or revolving fund orders in the total amount of approximately \$1,887,744.98 involving 31,960 items. In addition, 6,050 delivery orders involving 24,200 items, 9,205 storeroom tags involving the delivery of 27,615 items, and 93 requisitions on the storekeeper involving 1,395 items were issued.

ORGANIZATION CHART
BUREAU OF PERSONNEL ADMINISTRATION



*Position in General Office budget;
responsibility for assignment only

BUREAU OF PERSONNEL ADMINISTRATION

Albert C. Ambrose, Senior Departmental Personnel Officer

The Bureau of Personnel Administration is the central personnel agency for the Department of Public Works and a service bureau to all other operating and service bureaus of the department. The Supervisor of the Bureau of Personnel Administration advises the Director, the Assistant Directors, the bureau heads, line supervisors, and other department employees on matters dealing with personnel, be they classification, salary, discipline, assignment, transfer, time reporting, employee evaluation, Civil Service rules and regulations, Board of Supervisors ordinances and resolutions, the City Charter, the policies of the Mayor's and Chief Administrative Officer's offices, and other personnel transactions. The Bureau Chief also acts as liaison officer between the department and the Civil Service Commission, Controller's office and Mayor's office in matters of personnel administration. The staff of the Bureau of Personnel Administration is directly involved in the preparation of all departmental time rolls and the processing of all personnel transactions, including Civil Service employee sign-up and assignment, Non-Civil Service and Limited Tenure recruiting, sign-up and assignment, the keeping of sick leave, vacation, overtime earned, personal and educational leave records, the processing of disciplinary cases, the requisitioning for permanent and temporary employments, some phases of payroll distribution, and all other personnel transactions.

Whereas in prior years there was a gap in the continuity of personnel clerical classifications in the bureau, effective November 1, 1968 the bureau, through a reclassification, obtained a position in Class 1224 Principal Payroll and Personnel Clerk. The bureau now has positions in each of the Payroll and Personnel classifications, which allows for better assignment of personnel, thereby affording a more balanced organization with better supervision and a more orderly and effective absorption of the work of personnel on vacation or leave.

The Operations of the Bureau of Personnel Administration in fiscal year 1968-69 included the following: The bureau prepared and

processed a total of 1605 time rolls involving an expenditure of approximately \$19,765,351.00. Included in this payroll expenditure was a substantial amount for temporary employees, plus supplemental disability payments. There was a total of 259 requisitions for permanent Civil Service employees to replace vacancies due to deaths, resignations, transfers, retirements, etc. Additionally, there were 740 requisitions for temporary Civil Service employments due to vacation, sick leave, personal leave, reclassifications, replacements, etc. However, because of difficulty in recruiting Civil Service employments, it was necessary to employ 943 Non-Civil Service employees for these authorized positions.

The inter-relationship of personnel records to the preparation of these payrolls necessitated 5304 reports to the department physician of new cases of illness to verify legitimacy of sick pay as required by ordinance. There were also 214 accident reports filed, with the necessary follow-up procedure required, which are not included in the reports to the department physician.

Bureau headquarters are at 253-60 City Hall, where the Bureau Chief and the bulk of his staff are located. A listing of the bureau's personnel is as follows:

- 1 1272 Sr. Departmental Personnel Officer
- 1 1226 Chief Payroll and Personnel Clerk
- 1 1224 Prin. Payroll and Personnel Clerk
- 1 1222 Sr. Payroll and Personnel Clerk
- 8 1220 Payroll and Personnel Clerk
- 1 1650 Accountant
- 1 1424 Clerk Typist
- 1 1424 Clerk Typist (temporary)
- 1 1404 Clerk
- 1 B222 General Clerk
- 1 1402 Jr. Clerk (See Organization Chart)

OPERATING BUDGET OF BUREAU

| <u>Purpose</u> | <u>Allowances</u> | | <u>Expenditures</u> | |
|-------------------------------|-------------------|-------------------|---------------------|-------------------|
| | <u>1967-68</u> | <u>1968-69</u> | <u>1967-68</u> | <u>1968-69</u> |
| Permanent Salaries | \$103,736 | \$108,458 | \$100,322 | \$105,210 |
| Overtime | 450 | 475 | 450 | 475 |
| Holiday Pay | 474 | 530 | 474 | 527 |
| Contractual Services | 2,128 | 2,200 | 2,128 | 2,200 |
| Materials and Supplies | 1,500 | 1,500 | 1,464 | 1,474 |
| Equipment | 490 | 890 | 482 | 884 |
| Services of Other Departments | 50,770 | 82,094 | 50,770 | 82,092 |
| Departmental Revolving Fund | <u>4,000</u> | <u> </u> | <u>4,000</u> | <u> </u> |
| Total | \$163,548 | \$196,147 | \$160,090 | \$192,862 |

WORK ORDERS TO DEPARTMENT

Fiscal Year 1968-1969

| <u>Bureau</u> | <u>Number of
Cost Accounts</u> | <u>Total
Allowance</u> |
|----------------------------|------------------------------------|----------------------------|
| Architecture | 233 | \$ 855,973 |
| Building Inspection | 3 | 89,000 |
| Building Repair | 484 | 1,811,662 |
| Engineering | 777 | 5,156,212 |
| General Office (Contracts) | <u>107</u> | <u>11,978,973</u> |
| Total | <u>1,604</u> | <u>\$19,891,820</u> |

DEPARTMENT BUDGET

| <u>Bureau</u> | <u>Allowances</u> | | <u>Expenditures</u> | |
|--|-------------------|----------------|---------------------|----------------|
| | <u>1967-68</u> | <u>1968-69</u> | <u>1967-68</u> | <u>1968-69</u> |
| <u>General Fund</u> | | | | |
| Accounts | \$ 163,548 | \$ 196,147 | \$ 160,090 | \$ 192,800 |
| Architecture | 122,505 | 132,936 | 117,937 | 131,610 |
| Building Inspection | 1,617,742 | 1,745,874 | 1,527,042 | 1,675,330 |
| Building Repair | 3,661,881 | 3,879,859 | 3,529,525 | 3,769,100 |
| Traffic Painting | 280,897 | 299,147 | 269,627 | 285,000 |
| Central Permit | 87,641 | 96,174 | 83,086 | 92,300 |
| Engineering | 1,072,927 | 1,050,394 | 1,019,909 | 1,041,000 |
| General Office | 905,188 | 775,214 | 668,401 | 764,500 |
| Personnel Administration | 95,948 | 100,618 | 80,301 | 91,800 |
| Water Pollution Control | | | | |
| Waste Water Pumping Stations | 214,599 | 233,208 | 210,367 | 227,500 |
| Treatment Division | 1,665,722 | 1,783,623 | 1,629,796 | 1,756,200 |
| Sewer Repair | 1,487,367 | 1,642,072 | 1,502,195 | 1,626,000 |
| Street Cleaning | 3,607,360 | 3,849,356 | 3,507,158 | 3,571,500 |
| Capital Improvements | 2,887,350 | 1,364,568 | 2,454,695 | 1,960,000 |
| <u>Special Gas Tax Street Improvement Fund</u> | | | | |
| General Maintenance | 1,634,904 | 1,634,904 | 1,634,904 | 1,634,904 |
| Construction | 4,226,493 | 1,645,000 | 2,682,202 | 1,109,000 |
| 1.04 Cent Funds | 2,306,700 | 2,311,000 | 1,397,248 | 426,200 |
| <u>Road Fund</u> | | | | |
| Street Repair | 2,605,883 | 2,754,099 | 2,526,707 | 2,704,500 |
| Select System Construction | 730,300 | 700,000 | 65,204 | 73,700 |
| Traffic Engineering | 1,157,498 | 1,244,180 | 1,101,830 | 1,184,300 |
| General Maintenance | 687,464 | 720,420 | 749,155 | 496,300 |
| Construction | 1,618,764 | 1,514,762 | 1,193,854 | 2,134,100 |
| Street Planting | 372,989 | 400,067 | 362,214 | 391,100 |
| 1.04 Cent Matching Funds | 1,575,300 | | 257,582 | |
| Total | \$34,786,970 | \$30,073,622 | \$28,731,029 | \$27,340,900 |

Expenditures for capital improvements may not necessarily match allowances for any given year, since allowances may be forwarded from year to year until the project is completed.

APPENDIX I

BUREAU OF ENGINEERING CURRENT CONTRACT DATA SUMMARY

Showing All Contract Work Awarded or Underway

July 1, 1968 - June 30, 1969

| Table | Type of Construction | No. | Contracts Awarded | Amount |
|--------|--|-----|-------------------|----------------------------------|
| | | | Aggregate Value | Expended Fiscal Year 1968 - 1969 |
| | A Major Thoroughfares | 1 | \$53,895.75 | 1,202,883.90 |
| B-1 | Streets-Private Contracts | 3 | 10,600.00 | 43,950.00 |
| B-2 | Streets-Assessment Proceedings | 5 | 90,981.00 | 719,220.40 |
| B-3 | Streets-Public Contract City Pay | 16 | 1,105.855.50 | 996.640.12 |
| C | Traffic Signals & Channelization | 4 | 198,132.10 | 315,523.16 |
| D-1 | Sewers- Vitrified Pipe Clay & Concrete | 10 | 734,184.20 | 1,169,797.85 |
| D-2 | Sewers- Concrete Monolithic | 2 | 1,312,886.00 | 684,667.40 |
| E | Recreation - Park | 13 | 661,432.83 | 628,604.98 |
| F | Miscellaneous | 36 | 2,057,525.72 | 3,802,837.74 |
| G | Informal & Emergency | 15 | 195,393.34 | 152,980.70 |
| TOTALS | | 105 | \$6,420,886.44 | 9,717,106.25 |

APPENDIX I

BUREAU OF ENGINEERING CURRENT CONTRACT DATA SUMMARY

On the following pages appear separate tables of Current Contracts for each of the types of construction listed above. The source of the funds used to finance each project is indicated in the Tables according to the following:

ABBREVIATION LEGEND

Designation

Description of Funds

General

- General Fund City & County

S. RD

- Special Road Improvement Fund

M.S.

- Special Gas Tax Improvement Fund

A.P.

- Assessment Proceedings - Assessed
To Property Benefited St Impr Ord 1934

P.P.O.

- Cost Borne By Property Owners -
Private Contract

60 S.B. - Sewer Bond

- Bond Issue Voted Nov. 8, 1960 - \$12,500,00

55 R.P. - Recreation Park

- " " " Nov. 8, 1955 - 7,248,00

54 L.H.B. - Laguna Honda

- " " " Nov. 2, 1954 - 5,475,00

54 S.B. - Sewer Bond

- " " " June 8, 1954 - 12,645,00

48 S.T.B. - Sewage Treatment

- " " " June 1, 1948 - 15,000,00

47 O.S.P. - Parking

- " " " Nov. 4, 1947 - 5,000,00

47 S.I.B. - Street Impr.

- " " " Nov. 4, 1947 - 22,850,00

44 S.B. - Sewers

- " " " Nov. 7, 1944 - 12,000,00

64 S.B. - Sewer

- " " " June 2, 1964 - 15,623,00

64 S.L.B. - Lighting

- " " " June 2, 1964 - 7,000,00

64 LCRB - Log Cabin

- " " " Nov. 3, 1964 - 1,300,00

68 S.B. - Sewerage & Water
Pollution Control

- " " " Nov. 5, 1968 - 17,500,00

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1968-1969 A - MAJOR THOROUGHFARES

| <u>DESCRIPTION & CONTRACTOR</u> | <u>AWARDED</u> | <u>COMPLETION
DATE OR %</u> | <u>CONTRACT
AMOUNT</u> | <u>AMOUNT
EXPENDED</u> | <u>FUND</u> |
|---|----------------|---------------------------------|----------------------------|----------------------------|--------------------|
| Worth Street | | | | | |
| ppard St. To Elk St. | | | | | |
| dening | | | | | |
| C. Jones & Son | 7-19-67 | 8-2-68 | \$472,911.49 | \$ 82,131.49 | MCS
Sp Rd
SB |
| iana Street | | | | | |
| riposa St. to 20th St. | | | | | |
| onstruction | | | | | |
| . Fontana & Sons, Inc. | 8-4-67 | 8-9-68 | 162,885.57 | 34,815.57 | Sp Rd
SB
Gen |
| eva Avenue | | | | | |
| ra St. to Ocean Ave. | | | | | |
| dening | | | | | |
| lora Crane Service | 10-25-67 | 9-26-68 | 238,797.50 | 61,227.50 | Sp Rd
MCS |
| y St. Circle - Contract | | | | | |
| - Rechannelization | | | | | |
| The Lowrie Paving Co., Inc. | 2-28-68 | 48% | 2,301,907.00 | 819,540.00 | MCS
Sp Rd
SB |
| Development Area E-1 Streets | | | | | |
| Contract F | | | | | |
| Mitchell Plumbing Co. | 1-19-68 | 93% | 267,799.00 | 148,050.00 | Sp Rd
SB |
| n Street | | | | | |
| arket St. to McAllister St. | | | | | |
| reet Extension | | | | | |
| The Lowrie Paving Co., Inc. | 6-14-68 | 10-10-68 | 40,379.34 | 40,379.34 | Gen
MCS |
| | - - - - | | - - - - | | |
| Development Area E-1 | | | | | |
| Contract I | | | | | |
| dening | | | | | |
| D.C. Jones & Son | 3-28-69 | 35% | 53,895.75 | 16,740.00 | MCS
Sp Rd |
| Total Awarded & Expended During Fiscal Year | | | \$53,895.75 | \$1,202,883.90 | |

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1968-1969 B-1 - STREETS PRIVATE CONTRACTS

| <u>STREETS OR SUBDIVISION
AND CONTRACTOR</u> | <u>IMPROVEMENT</u> | <u>AWARDED</u> | <u>COMPLETED</u> | <u>CONT. AMT.</u> |
|--|--------------------|----------------|------------------|-------------------|
| Mt. Sutro Woods
Subdivision No. 1
Sutro Development Co. | S | 12- 2-64 | 60% | \$ 6,000 |
| Crestmont Drive Extension
Sutro Development Co. | S | 2- 2-66 | 80% | 5,000 |
| 23rd St - 3rd St. To Iowa
S.F. Ind. Park | SCP | 10-26-66 | 1-21-69 | 18,000 |
| Nibbi Court -
Blanken Ave. to Gillette
Nibbi Bros. | SCP | 10-26-66 | 55% | 12,000 |
| Mt. Sutro Woods
Subdivision No. 2
Sutro Development Co. | S | 5-12-67 | 50% | 4,000 |
| Quintara St. at 37th Ave.
Williams & Burrows | S | 4- 5-68 | 60% | 20,000 |
| Mt. Sutro Drive
Sutro Development Co. | S | 3-13-68 | 95% | 5,800 |
| Revere Ave N/W Griffith
Pacific Pavements | | 5-15-68 | 5-21-69 | 16,150 |
| Leidesdorff -
California to Halleck
The Lowrie Paving Co | G-P | 11-22-68 | 12-23-68 | 4,000 |
| Myra Glen Subdivision
Tuck Investment Co. | S | 3-29-68 | 0% | 5,000 |
| W ¹ / ₂ Indiana -
23rd St. South
Lindquist Co. | G-PC. | 2-26-69 | 3-14-69 | 3,000 |
| Halleck St - Leidsdorff - Sansome
Pacific Pavements | PC SW | 3- 5-69 | 4-15-69 | 3,600 |
| Total Awarded During Fiscal Year | | | | \$ 10,600 |
| Total Value Of Work Done During Fiscal Year | | | | \$ 43,950 |

S - Sewers GR - Grading C - Curbs P - Paving SW - Sidewalks

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1968-1969 B-2 STREET ASSESSMENT
PROCEEDINGS

| <u>STREET OR SUBDIVISION
AND CONTRACTOR</u> | <u>IMPROVEMENT</u> | <u>AWARDED</u> | <u>COMPLETED</u> | <u>CONTRACT
AMOUNT</u> |
|--|--------------------|------------------|------------------|------------------------------|
| Key-Sparta-Ward Sts.
Montana | SCP SW | 3-29-68 | 3-31-69 | \$59,553.40
(40,119.93) - |
| St.-West of San Jose Ave.
Pavement | SCP | 5-17-68 | 9-27-68 | 15,100.00
(8,581.72) - |
| Court & Somerset S/Woolsey
Crane | GSCP | 5-1-68 | 6-27-69 | 111,681.00
(61,113.37) - |
| Ave.- Vicinity of Upton St.
Pavement | GSCP | 3-13-68 | 8-19-68 | 67,000.00
(38,732.13) - |
| St.- Goettingen to Hamilton
Crane | GSCP | 3-27-68 | 70% | 160,650.00
(132,788.51) - |
| St. & Minnesota St.
Phillips Plumbing | S | 6-12-68
- - - | 90% | 388,578.00
(337,988.92) - |
| Netto Ave.-Head St.-Victoria
Crane | GGPS | 10-25-68 | 3-28-69 | 23,431.00
(17,668.40) - |
| Stairway & Ord Court
Co, Inc. | S | 5-28-69 | 0% | 12,470.00
(6,315.08) - |
| Place East of Mason
Construction Company | CP | 1-3-69 | 4-14-69 | 4,775.00
(3,399.36) - |
| Alley-West of Leavenworth Sewer
Construction | S | 11-22-68 | 3-19-69 | 11,910.00
(9,039.03) - |
| St.-Arkansas-Carolina Improve-
ment
Pavement Company | SCP | 4-2-69 | 30% | 38,395.00
(1,443.70) - |
| Total Awarded During Fiscal Year | | | | \$90,981.00 |
| Total Value of Work Done During Fiscal Year | | | | \$719,220.40 |
|)---Estimated or Final Amount of City Obligation | | | | S = Sewers |
| Balance through Assessment of Property Benefited | | | | G = Grading |
| City Funds from Special Road Improvement Fund | | | | C = Curbs |
| | | | | P = Pavements |
| | | | | SW= Sidewalks |

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1968-1969 B-3 STREETS - PUBLIC CONTRACT
CITY PAY

| DESCRIPTION & CONTRACTOR | AWARDED | COMPLETION
DATE OR % | CONTRACT
AMOUNT | AMOUNT
EXPENDED |
|--|------------------|-------------------------|--------------------|--------------------|
| Castro St. & Others
Resurfacing
Bragato Paving Co. | 10-25-67 | 7-19-68 | \$158,933.24 | \$ 23,483.24 |
| Stanyan St.
Fell St. To Fulton
Widening
Annuzzi Conc. Service | 12-13-67 | 10-10-68 | 90,466.19 | 49,246.19 |
| Mason St. & Taylor St.
Pavement Reconstruction &
Sewer Replacement
Flora Crane | 4-17-68 | 11-27-68 | 132,547.58 | 132,547.58 |
| Marina Blvd. - 450 Ft.
East Lyon St. Widening
Annuzzi Conc. Service | 5-17-68 | 10- 8-68 | 47,429.00 | 42,029.00 |
| Sunnydale Ave. Extension -
Sunnydale To Persia
Pavement Reconstruction
Piombo Corp. | 5-29-68 | 11- 8-68 | 76,251.10 | 76,251.10 |
| Goettingen St. & Mill St.
Pavement Reconstruction
O.C. Jones & Sons | 6- 7-68 | 8-26-68 | 29,721.74 | 29,721.74 |
| Lyon St.
Pavement Reconstruction
Annuzzi Conc. Service | 6-21-68
----- | 2-26-69 | 45,553.22
----- | 45,553.22 |
| Bay St. & Stockton St.
Pavement Reconstruction
Annuzzi Conc. Service | 7-17-68 | 9-18-68 | 7,600.55 | 7,600.55 |
| Filbert St. & Union St.
Pavement Reconstruction
U. Peira & Son | 7-17-68 | 4-25-69 | 75,497.85 | 75,497.85 |
| Scott St. & Others
Street Resurfacing
L.C. Smith | 8-14-68 | 5-19-69 | 33,302.44 | 33,302.44 |
| Vallejo - Green - Greenwich
Pavement Reconstruction
U. Peira & Son | 8-30-68 | 66% | 117,340.00 | 70,110.00 |

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1968-1969 B-3 STREETS - PUBLIC CONTRACT CITY PAY

| DESCRIPTION & CONTRACTOR | AWARDED | COMPLETION
DATE OR % | CONTRACT
AMOUNT | AMOUNT
EXPENDED | FUND |
|--|----------|-------------------------|--------------------|--------------------|------------|
| St. Franklin St.
Gough St.
Sidewalk Narrowing
Howrie Paving Co. | 10-23-68 | 0 | \$ 13,621.00 | 0 | SPR |
| Oct Systems Streets -
San Ness - Mission
Paving
C. Smith | 10-23-68 | 3-27-69 | 89,473.64 | 89,473.64 | MC |
| St. & Washington St.
Development Area "H"
Reconstruction
Guire & Hester | 10-30-68 | 5-12-69 | 78,185.83 | 78,185.83 | SPR |
| ward St. & Union St.
Pavement Reconstruction
Muzzi Conc. Service | 11- 6-68 | 6-30-69 | 46,467.69 | 46,467.69 | MC
SPR |
| Many Blvd. - San Jose
To Mission Viaduct
Street Resurfacing
Howrie Paving Co. | 1-21-69 | 4-25-69 | 47,940.03 | 47,940.03 | SPR |
| St. Potrero Ave. To
Grant St.
Sidewalk Narrowing
Robett Elect. Corp. | 2- 7-69 | 0 | 83,143.00 | 0 | SPR |
| Illinois St. - El Dorado St.
23rd St.
Pavement Reconstruction
Sewer
Guire & Hester | 2-26-69 | 36% | 250,895.00 | 80,640.00 | SPR
SB |
| Line Terrace
Pavement Reconstruction
Sewer Replacement
Howrie Paving Co. | 4-11-69 | 80% | 22,309.00 | 0 | SPR
SB |
| inery St. - Elk St.
Diamond St.
Sidewalk Narrowing
Howrie Paving Co. | 4- 2-69 | 43% | 81,174.00 | 31,680.00 | MC
SPR |
| n Park F.A.C.E.
ea Streets
Pavement Reconstruction
Sewer Replacement
Peira & Son | 4-11-69 | 22% | 143,299.00 | 27,990.00 | MCS
SPR |

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1968-1969 B-3 STREETS - PUBLIC CONTRACT
CITY PAY

| <u>DESCRIPTION & CONTRACTOR</u> | <u>AWARDED</u> | <u>COMPLETION
DATE OR %</u> | <u>CONTRACT
AMOUNT</u> | <u>AMOUNT
EXPENDED</u> |
|---|----------------|---------------------------------|----------------------------|----------------------------|
| Harney Way - Bayshore
Freeway to Jamestown
Widening
Lowrie Paving Co. | 4-23-69 | 6-12-69 | \$ 8,920.02 | \$ 8,920.02 |
| Emery Lane - Vallejo St.
To N. Termination
Pavement Reconstruction
D. Venturini Trucking | 5-29-69 | 0 | 6,686.35 | 0 |
| Total Awarded & Expended
During Fiscal Year | | | \$1,105,855.50 | \$996,640.12 |

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1968-1969 C - TRAFFIC SIGNALS & CHANNELIZATION

| DESCRIPTION & CONTRACTOR | AWARDED | COMPLETION
DATE OR % | CONTRACT
AMOUNT | AMOUNT
EXPENDED | FUND |
|--|---------|-------------------------|--------------------|--------------------|------------------------|
| Various Intersections
Traffic Signals
Installation Contr. 25A
R. Flatland | 1-3-68 | 7-24-68 | 37,141.00 | 6,001.00 | SP RD |
| Development Area E-1
Contract G - Various Inter-
sections -
Traffic Signals
Steiny & Mitchel | 3-13-68 | 7-19-68 | 15,140.65 | 15,140.65 | SP RD |
| Various Intersections
Modification Traffic Signals
Steiny & Mitchel | 5-10-68 | 3-14-69 | 46,021.14 | 46,021.14 | SP RD
State
Fund |
| Various Intersections
Contract 25 - Traffic
Signals & Related Work
Monston Electric | 6-5-68 | 4-28-69 | 72,935.00 | 72,935.00 | SP RD |
| Mynton St. and 17th St.
Channelization
Lowrie Paving Co. Inc. | 6-21-68 | 43% | 101,949.80 | 37,980.00 | MCS
SP RD
GEN |
| Various Intersections
Contract 25B
Traffic Signals
Steiny & Mitchel | 5-1-68 | 12-13-68 | 13,206.96 | 13,206.96 | SP RD
GEN |
| Lincoln Way
at 6th & 7th Ave.
Channelization
Lowrie Paving Co. Inc. | 6-28-68 | 3-18-69 | 88,668.41 | 88,668.41 | SP RD |
| | - - - - | | - - - - | | |
| Guello Blvd.
at Turk St.
Channelization
Venturini Trucking &
Grading | 3-28-69 | 63% | 54,055.10 | 30,240.00 | SP RD
GEN |
| Downtown Area
Contract 3 - Traffic
Signals
Monston Electric Co. Inc. | 4-30-69 | 10% | 55,651.00 | 5,130.00 | MCS
SP RD |

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1968-1969 C - TRAFFIC SIGNALS & CHANNELIZATION

| <u>DESCRIPTION & CONTRACTOR</u> | <u>AWARDED</u> | <u>COMPLETION
DATE OR %</u> | <u>CONTRACT
AMOUNT</u> | <u>AMOUNT
EXPENDED</u> | |
|--|----------------|---------------------------------|----------------------------|----------------------------|-------|
| Jefferson St. & Taylor St.
Traffic Signals
Contract 26A
Abbett Electric Corp. | 6-11-69 | 0% | 8,876.00 | 0% | S. R. |
| Various Intersections
Traffic Signals
Contract 26
Emsco Electric Corp. | 6-27-69 | 0% | 79,550.00 | 0% | S. R. |
| Total Awarded & Expended During Fiscal Year | | | \$198,132.10 | \$315,523.16 | |

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1968-1969 D-1 SEWERS PIPE
VITRIFIED CLAY & CONCRETE

| <u>DESCRIPTION & CONTRACTOR</u> | <u>AWARDED</u> | <u>COMPLETION
DATE OR %</u> | <u>CONTRACT
AMOUNT</u> | <u>AMOUNT
EXPENDED</u> | <u>FUND</u> |
|--|----------------|---------------------------------|----------------------------|----------------------------|----------------|
| S.T. Plant
Fall Extension
Lais Creek Crossing
Tunnel Crossing
Mcanson-Harrelson | 4-12-67 | 99% | \$659,973.69 | \$221,220.00 | S.B. |
| Coln Way
th Ave. & Lincoln
14th & Irving
n. R. Cole | 10-11-67 | 11-22-68 | 455,079.09 | 180,039.09 | S.B.
S.L.B. |
| d Ave. Sewer
ary to Lake
largement
udson-Brennan & Yee | 12-20-67 | 7-5-68 | 172,835.75 | 20,645.75 | S.B. |
| coln Way
th & Irving
12th & Kirkham
wer Construction
ct. D-2
lora Crane | 4-17-68 | 1-8-69 | 210,761.30 | 210,761.30 | S.B.
Gen |
| enwich St.
oderick to Baker
wer Relocation
lora Crane Service | 6-12-68 | 10-24-68 | 34,383.40 | 34,383.40 | S.B. |
| th Street
stro to Diamond Street
wer Construction
Street Resurfacing
cGuire & Hester | 6-12-68 | 9-10-68 | 33,519.95 | 33,519.95 | S.B.
Sp Rd |
| on Street
on to Baker
wer Reconstruction
owrie Paving Co. | 5-29-68 | 9-13-68 | 70,221.16 | 70,221.16 | S.B. |
| es Street
ons St. to Broderick St.
wer Reconstruction
owrie Paving Co. | 7-17-68 | 10-30-68 | 56,637.90 | 56,637.90 | S.B. |

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1968-1969 D-1 SEWERS PIPE
VITRIFIED CLAY & CONCRETE

| <u>DESCRIPTION & CONTRACTOR</u> | <u>AWARDED</u> | <u>COMPLETION
DATE OR %</u> | <u>CONTRACT
AMOUNT</u> | <u>AMOUNT
EXPENDED</u> |
|---|----------------|---------------------------------|----------------------------|----------------------------|
| Scott Street
Filbert St. to Green St.
Sewer Reconstruction
M.G. Rodrigues | 8-16-68 | 10-18-68 | \$ 52,281.20 | \$ 52,281.20 |
| 17th Street
Florida St. to Alabama St.
Sewer Reconstruction
Mitchell Plumbing Co. | 10-23-68 | 3-23-69 | 23,183.90 | 23,183.90 |
| Pacific Avenue
Divisadero to Broderick
Sewer Reconstruction
Flora Crane Service | 12-18-68 | 3-28-69 | 31,779.90 | 31,771.90 |
| 11th Avenue
Kirkham to Moraga St.
Sewer Enlargement
McGuire & Hester | 1-8-69 | 4-17-69 | 106,837.30 | 106,837.30 |
| Sacramento Street
Walnut to Lyon
Sewer Reconstruction
Flora Crane Service | 2-14-69 | 5-16-69 | 47,295.00 | 47,295.00 |
| Niagara Avenue
Louisburg to Cayuga
Sewer Enlargement
Flora Crane Service | 4-2-69 | 46% | 123,988.00 | 51,480.00 |
| Dolores Street
18th St. to 20th St.
Sewer Reconstruction
McGuire & Hester | 4-25-69 | 10% | 91,111.00 | 9,540.00 |
| Fillmore Street
Vallejo to Green
Sewer & Street Reconstruction
Flora Crane Service | 4-30-69 | 41% | 54,080.00 | 19,980.00 |
| 18th Street
Noe St. to Collingwood
Sewer Reconstruction
Flora Crane Service | 6-27-69 | 0% | <u>146,990.00</u> | <u>0</u> |
| Total Awarded & Expended During Fiscal Year | | | \$734,184.20 | \$1,169,797.85 |

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1968-1969 - D-2 SEWERS - CONCRETE -
MONOLITHIC

| <u>DESCRIPTION & CONTRACTOR</u> | <u>AWARDED</u> | <u>COMPLETION
DATE OR %</u> | <u>CONTRACT
AMOUNT</u> | <u>AMOUNT
EXPENDED</u> | <u>FUND</u> |
|---|----------------|---------------------------------|----------------------------|----------------------------|-------------|
| Broft-Griffith
Contract No. 2
Intercepting Sewer
Flora Crane Service | 10-27-67 | 10-30-68 | \$207,577.40 | \$ 79,237.40 | S.B. |
| - - - - | - - - - | - - - - | - - - - | - - - - | - - - - |
| St. - Taylor
St. Contract "C"
Sewer Construction
Hanson-General | 10-30-68 | 42% | 1,096.985.00 | 414.540.00 | S.B. |
| Division St.
Section "B" Auxiliary
Sewer
Underground Constr. | 11-20-68 | 98% | <u>215,901.00</u> | <u>190.890.00</u> | S.B. |
| Total Awarded & Expended During Fiscal Year - | | | \$1,312,886.00 | \$684.667.40 | |

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1968-1969 E - RECREATION AND PARK

| <u>DESCRIPTION AND CONTRACTOR</u> | <u>AWARDED</u> | <u>COMPLETION
DATE OR %</u> | <u>CONTRACT
AMOUNT</u> | <u>AMOUNT
EXPENDED</u> | <u>FUN</u> |
|---|----------------|---------------------------------|----------------------------|----------------------------|------------|
| Christopher Park
Opalo Lane
Concrete Stairs
Ravano Constr. Co. | 5-3-68 | 10-21-68 | 6,579.00 | 6,579.00 | GEN |
| Midtown Terrace
Landscaping
J.H.Fitzmaurice, Inc. | 5-15-68 | 12-4-68 | 21,786.00 | 21,786.00 | GEN |
| Golden Gate Park & Mission
Park
Asphalt Concrete Resurfacing
Pacific Pavements, Inc. | 5-15-68 | 7-31-68 | 19,888.65 | 19,888.65 | GEN |
| Gilman Playground
Grading, Landscaping,
Irrigation
A & J Shooter | 6-14-68 | 5-2-69 | 126,981.50 | 126,981.50 | GEN |
| S.F.Zoological Gardens
Rehabilitation Cages &
Fences
Anchor Post Prod. | 6-21-68 | 10-3-68 | 6,935.00 | 6,935.00 | GEN |
| Mc Laren Park
Storage Lake
Slide Corrections & Pipe
Repair
Flora Crane Service | 6-21-68 | 2-4-69 | 32,462.00 | 32,462.00 | RP 3d |
| Mc Laren Park
Road Re-Alignment
B. Fontana & Sons | 4-5-68 | 8-30-68 | 28,451.00 | 10,361.00 | RP 3d |
| | - - - - | | - - - - | | |
| Lake Merced Shoreline
Floats For Fishing Craft
De Narde Constr. Co. | 8-2-68 | 6-24-69 | 50,003.94 | 50,003.94 | GE |
| Mc Laren Park
Contract II - Water
Distribution System
A & J Shooter | 8-21-68 | 99% | 86,778.00 | 78,030.00 | GE |
| Tri Park Bicycling Trailway
Construct Wearing Surface
Pacific Pavements, Inc. | 9-27-68 | 5-6-69 | 48,099.19 | 48,099.19 | GE |

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1968-1969 E - RECREATION AND PARK

| <u>DESCRIPTION AND CONTRACTOR</u> | <u>AWARDED</u> | <u>COMPLETION
DATE</u> | <u>CONTRACT
AMOUNT</u> | <u>AMOUNT
EXPENDED</u> | <u>FUND</u> |
|--|----------------|----------------------------|----------------------------|----------------------------|-------------|
| . F. Zoo
Hoofed Animal Shelter
Construction
J.M.Construction Co. | 10-11-68 | 3-11-69 | 25,094.98 | 25,094.98 | GEN |
| Strybing Arboretum
Garden Work Center
Heuttig & Schromm | 12-20-68 | 6-20-69 | 19,425.00 | 19,425.00 | GEN |
| Laren Park Development
Reconstruct Mc Nab
Reservoir
Peterson-Rathborne | 12-18-68 | 99% | 58,893.00 | 53,820.00 | GEN |
| F.Zoological Gardens
Fences & Fence
Tholl Fence Co. | 1-8-69 | 6-3-69 | 5,666.00 | 5,666.00 | GEN |
| Golden Gate Park
Water Reclamation
Plant Modifications
De Narde Constr. Co. | 1-8-69 | 5-6-69 | 10,500.00 | 10,500.00 | GEN |
| Candlestick Park
Water Pumping Station
S. & Q. Constr. Co. | 1-8-69 | 6-12-69 | 17,790.00 | 17,790.00 | GEN |
| Old Mix Resurfacing
at 8 Locations
Resurfacing
Malott Peterson Grundy | 1-29-69 | 6-27-69 | 42,887.00 | 42,887.00 | GEN |
| Parks and Squares
Asphalt Concrete Resurfacing
Lowrie Paving Co., Inc. | 1-29-69 | 5-27-69 | 46,095.25 | 46,095.25 | GEN |
| Candlestick Park
Pavement Resurfacing
Pacific Pavements Co. Inc. | 4-23-69 | 6-25-69 | 6,200.47 | 6,200.47 | GEN |
| Marina Small Craft Harbor
Improvements Seawall
De Narde Constr. Co. | 6-4-69 | 0 | 243,000.00 | 0 | GEN |
| Total Awarded And Expended
During Fiscal Year | | | \$661,432.83 | \$628,604.98 | |

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1968-1969 F - MISCELLANEOUS

| <u>DESCRIPTION & CONTRACTOR</u> | <u>AWARDED</u> | <u>COMPLETION
DATE OR %</u> | <u>CONTRACT
AMOUNT</u> | <u>AMOUNT
EXPENDED</u> | <u>F</u> |
|--|----------------|---------------------------------|----------------------------|----------------------------|----------|
| California Street
Van Ness to Kearny St.
St. Lighting & Related
Work .
Ed Hutka Electric Co. | 4-21-67 | 3-21-68 | \$ 56,477.50 | \$ 8,417.50 | S |
| S.E.S.T. Plant
Outfall Extension
Booster Pump Station
Rothschild & Raffin | 10-11-67 | 5-5-69 | 803,669.19 | 546,089.19 | S |
| Ignacio Avenue
Gilroy to Jamestown
Slide Repair
Pacific Excavators | 10-25-67 | 7-29-69 | 10,000.80 | 1,450.80 | S |
| Geneva Avenue
Mission to Santos
Street Lighting
Steinlauf Electric | 11-22-67 | 8-3-68 | 70,867.00 | 16,417.00 | S |
| Downtown Area
Street Lighting
Steinlauf Electric | 12-13-67 | 12-17-68 | 213,390.02 | 64,620.02 | S |
| S.E.S.T. Plant
Miscellaneous Impr.
Ahnger Forhoff & Bradford | 2-7-68 | 8-30-68 | 41,743.00 | 5,113.00 | S |
| Pacific Avenue
Van Ness to Front
Street Lighting
Overhead Electric Co. | 2-14-68 | 9-10-68 | 57,210.87 | 46,860.87 | S |
| Laguna Honda Hospital
Miscellaneous Improvements
Pratt Electric | 3-13-68 | 2-21-69 | 13,669.00 | 7,549.00 | G |
| Russian Hill Area
Stage I
Street Lighting &
Related Work
Rudolph Electric Co. | 4-10-68 | 10-31-68 | 8,083.70 | 8,083.70 | S |
| Sunset Boulevard
Pacheco to Taraval
Landscape Irrigation System
A & J Shooter, Inc. | 5-29-68 | 11-19-68 | 79,491.16 | 79,491.16 | S |

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1968-1969 F - MISCELLANEOUS

| <u>DESCRIPTION & CONTRACTOR</u> | <u>AWARDED</u> | <u>COMPLETION
DATE OR %</u> | <u>CONTRACT
AMOUNT</u> | <u>AMOUNT
EXPENDED</u> | <u>FUND</u> |
|--|----------------|---------------------------------|----------------------------|----------------------------|------------------|
| Street
Franklin to Hayes Street
Walk Trees
Wiley Crest Landscape | 5-29-69 | 12-5-68 | \$30,932.00 | \$30,932.00 | Sp.Rd. |
| Street
Columbus to Fillmore
Street Lighting and
Painted Work
B. Hokin Corp. | 6-14-68 | 4-10-69 | 80,409.23 | 80,409.23 | Sp.Rd. |
| ero Avenue
to Division
Walk Trees
Wiley Crest Landscape | 5-29-68 | 12-5-68 | 24,559.00 | 24,559.00 | Sp.Rd. |
| ness Avenue
anington to North Point
er Island Landscaping
Bista Landscape Service | 6-5-68 | 1-2-69 | 52,574.57 | 52,574.57 | Sp.Rd.
S.L.B. |
| d Street
enrich to Washington
Walk Trees
Wiley Crest Landscape | 6-5-68 | 10-30-68 | 12,207.00 | 12,207.00 | Sp.Rd. |
| ness Avenue
s St. to Grove St.
er Island Landscaping
Bista Landscape Service | 6-5-68 | 10-4-68 | 5,693.79 | 5,653.79 | Sp.Rd.
S.L.B. |
| Street
uello to Park Presidio
Walk Trees
A & J Shooter, Inc. | 6-12-68 | 10-22-68 | 18,072.00 | 18,072.00 | Sp.Rd. |
| ay Boulevard
monic to 33rd Avenue
rigation System Modi-
cation
R Flatland | 6-14-68 | 12-6-68 | 56,626.61 | 56,626.61 | Sp.Rd. |

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1968-1969 F - MISCELLANEOUS

| <u>DESCRIPTION & CONTRACTOR</u> | <u>AWARDED</u> | <u>COMPLETION
DATE OR %</u> | <u>CONTRACT
AMOUNT</u> | <u>AMOUNT
EXPENDED</u> | |
|--|----------------|---------------------------------|----------------------------|----------------------------|----|
| Lake St.
Park Presidio to 24th St.
Sidewalk Trees
A & J Shooter | 6-12-68 | 10-10-68 | \$13,274.50 | \$13,274.50 | 30 |
| Mansell St.
University to Shelley Drive
Island Landscaping
A & J Shooter | 6-14-68 | 10-18-68 | 18,078.17 | 18,078.17 | 30 |
| Twin Peaks Blvd.
Portola & Panorama
Slide Repairs
Buchanan & Clement | 6-14-68 | 11-18-68 | 15,776.15 | 15,776.15 | 30 |
| Brotherhood Way
Lake Merced Blvd. to
Thomas More Way
Landscaping
A & J Shooter | 6-21-68 | 1- 3-69 | 109,798.20 | 109,798.20 | 30 |
| Columbus Ave,
North Point to Kearny
Sidewalk Trees
Batista Lands. Service | 6-14-68 | 2-15-69 | 53,942.00 | 53,942.00 | 30 |
| Fisherman's Wharf Area
Stage II
Street Lighting
Rudolph Electric | - - - - | - - - - | - - - - | - - - - | |
| Steinhart Aquarium
Mammal Tank Filter
Beta Mechanical Contr. | 9-25-68 | 2-15-69 | 18,453.50 | 18,453.50 | 30 |
| Sloat Blvd.
Junipero Serra - Great
Highway
Street Lighting
Steiny & Mitchell | 9- 6-68 | 89% | 407,216.50 | 327,690.00 | 30 |
| Southeast Sewage Treatment
Plant
Reconstruct Pumps & Sumps
Oscar C. Holmes | 10-2-68 | 12% | 269,500.00 | 28,980.00 | 30 |

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1968-1969 F - MISCELLANEOUS

| DESCRIPTION & CONTRACTOR | AWARDED | COMPLETION
DATE OR % | CONTRACT
AMOUNT | AMOUNT
EXPENDED | FUND |
|---|----------|-------------------------|--------------------|--------------------|-------------|
| County Jail No. 2
Electric Service Facility
Weyer Electric | 10- 4-68 | 1-27-69 | \$ 15,344.00 | \$ 15,344.00 | GEN |
| Northeast Sewage
Treatment Plant
Edge Filtration System
Improvement
R.S. Engineering | 11- 6-68 | 39% | 318,000.00 | 100,800.00 | SB |
| Irving Public
Parking Facility
Parking Area
C. Jones & Son | 10-25-68 | 3- 7-69 | 34,235.00 | 34,235.00 | GEN |
| Al & Capp St.
Parking Plaza
Flora Crane Service | 10-25-68 | 4- 4-69 | 17,877.00 | 17,877.00 | GEN |
| Northeast Water Pollution
Control Plant
Pressure Transmitted Conduit
B. McNair Sons | 11-13-68 | 1-28-69 | 7,133.60 | 7,133.60 | SB |
| California St. -
Fillmore To Van Ness
Street Lighting &
Related Work
Bibbitt Electric Corp. | 12-18-68 | 95% | 32,191.00 | 27,630.00 | SLB |
| 1st St. - Hayes St.
Duboce
Street Lighting &
Related Work
Hamsco Electric Corp. | 12-27-68 | 6-30-69 | 24,631.00 | 24,631.00 | SLB
SPRD |
| Richmond Sunset Treatment
Plant
Construct Headworks
Facilities
Steinlauf Electric Co. | 2-19-69 | 7% | 736,319.00 | 44,280.00 | SB |
| 1st St. - Franklin To
Fillmore
Street Lighting &
Related Work
Rudolph Electric | 2- 5-69 | 25% | 46,975.00 | 10,350.00 | SLB
SPRD |

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1968-1969 F - MISCELLANEOUS

| <u>DESCRIPTION & CONTRACTOR</u> | <u>AWARDED</u> | <u>COMPLETION
DATE OR %</u> | <u>CONTRACT
AMOUNT</u> | <u>AMOUNT
EXPENDED</u> |
|--|----------------|---------------------------------|----------------------------|----------------------------|
| Richmond Sunset Water
Pollution Control Plant
Reconstruct Electric Service
Scott Electric Co. | 2- 7-69 | 95% | \$ 10,929.00 | \$ 9,000.00 |
| Marina District Public
Parking Facility
Public Parking Garage
J. DiGiorgio & Son | 2-28-69 | 26% | 284,094.00 | 65,610.00 |
| Bosworth St. Lyell St.
To Elk - Landscaping
Economy Garden Supply | 2-19-69 | 90% | 77,117.29 | 57,060.00 |
| Richland Ave. Bridge
Alterations
L.R. Yegge Co. | 4- 4-69 | 9% | 172,700.00 | 12,870.00 |
| Hassler Hospital
Fire System Sprinkler
Extension
Allan Automatic Sprinkler | 4- 2-69 | 6- 4-69 | 4,988.00 | 4,988.00 |
| Arguello Blvd. - Geary
to Fulton
Street Lighting &
Related Work
R. Flatland Co. | 3-28-69 | 30% | 28,700.00 | 7,920.00 |
| Great Highway - Lincoln
Way To Taraval
Street Lighting
Emsco Electric Corp | 4-11-69 | 6% | 59,804.00 | 3,690.00 |
| Roosevelt Way - Buena Vista
& Park Hill Ave.
Street Lighting
Emsco Electric Corp | 4- 9-69 | 38% | 43,264.00 | 14,850.00 |
| San Jose Ave. Randall to
Highland
Landscape & Irrigation
Yard Beautiful | 4-11-69 | 40% | 13,199.19 | 4,950.00 |

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1968-1969 F - MISCELLANEOUS

| <u>DESCRIPTION AND CONTRACTOR</u> | <u>AWARDED</u> | <u>COMPLETION
DATE OR %</u> | <u>CONTRACT
AMOUNT</u> | <u>AMOUNT
EXPENDED</u> | <u>FUND</u> |
|---|----------------|---------------------------------|----------------------------|----------------------------|--------------|
| ina District
rt II Stage I
reet Lighting
msco Electric Corp. | 4-23-69 | 0% | \$119,839.00 | 0% | SP RD
GEN |
| est Knolls
rious Locations
airways
eterson & Rathbun | 3-26-69 | 9% | 148,619.00 | 11,790.00 | SP RD
GEN |
| .S.T.Plant Digestors
-9
s Recirculation
cott Co.-Calif. | 5-23-69 | 0% | 528,120.00 | 0% | SB |
| ndview
main Area
reet Lighting
. Flatland Co. | 4-30-69 | 0% | 10,760.00 | 0% | SP RD
GEN |
| ah Street
th to La Playa
reet Lighting
msco Electric Corp. | 5-29-69 | 0% | 18,429.00 | 0% | SP RD
GEN |
| e Street
th Ave. to 28th Ave.
dewalk Trees
& J Shooter | 5-29-69 | 0% | 6,299.00 | 0% | SP RD |
| on St. at Calhoun
race
taining Wall
Joseph Kaplan, Inc. | 6-11-69 | 0% | 23,915.00 | 0% | SP RD |
| h St. and Roosevelt Way
dewalk Trees
l. C. Windsor | 6-13-69 | 0% | 18,187.50 | 0% | SP RD |
| ah St. & La Playa St.
dewalk Trees
l. C. Windsor | 6-13-69 | 0% | 14,116.00 | 0% | SP RD |
| uatic Park Area
age I
reet Lighting
l. Flatland Co. | 6-25-69 | 0% | 33,270.00 | 0% | SP RD
GEN |

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1968-1969 F - MISCELLANEOUS

| <u>DESCRIPTION AND CONTRACTOR</u> | <u>AWARDED</u> | <u>COMPLETION
DATE OR %</u> | <u>CONTRACT
AMOUNT</u> | <u>AMOUNT
EXPENDED</u> | <u>F</u> |
|--|----------------|---------------------------------|----------------------------|----------------------------|----------|
| Burnside-Lippard-Brompton
Streets | | | | | |
| Sidewalk Trees
R. C. Windsor | 6-25-69 | 0% | 20,554.00 | 0% | SP |
| Pennsylvania Ave.
Mariposa to 22nd
Street Lighting | | | | | |
| R. Flatland | 6-25-69 | 0% | 16,465.00 | 0% | SP |
| Leidesdorff St.
Gerke Alley & Montgomery
Street Lighting | | | | | |
| Steiny & Mitchell | 6-25-69 | 0% | 6,391.00 | 0% | SL |
| Sunset Blvd.
Taraval to Yorba
Landscaping | | | | | |
| A & J Shooter | 6-27-69 | 0% | 89,764.00 | 0% | MC |
| Total Awarded & Expended During Fiscal Year | | | <u>\$2,057,525.72</u> | <u>\$3,802,837.74</u> | |

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1968-1969 G - INFORMAL CONTRACTS

| <u>DESCRIPTION & CONTRACTOR</u> | <u>AWARDED</u> | <u>COMPLETION
DATE OR %</u> | <u>CONTRACT
AMOUNT</u> | <u>AMOUNT
EXPENDED</u> | <u>FUND</u> |
|--|----------------|---------------------------------|----------------------------|----------------------------|-------------|
| Radio Ave.
Mammoth to Gilroy
Pavement Repair
Pacific Excavators | 5-29-68 | 8-27-68 | \$ 3,345.60 | \$ 3,345.60 | Sp Rd |
| Radio Ave.
Mammoth to Griffith Sts.
Pavement
Pacific Pavements Co.Ltd. | 4-10-68 | 5-21-69 | 4,228.76 | 4,228.76 | Sp Rd |
| Radio St.
Mammoth & Whipple
Traffic Island Landscaping
Mammothdale Bros. | 5-22-68 | 10-31-68 | 3,450.00 | 3,450.00 | Sp Rd |
| Radio Ave.
Mammoth to Griffith Sts.
Pavement
Anchor Post. Prod. | 6-21-68 | 8-28-68 | 930.00 | 930.00 | M.C.S. |
| Radio St.
Mammoth Reconstruction
U. Peira & Son | 11-27-68 | 1-20-69 | 15,985.30 | 15,985.30 | S.B. |
| Radio St.
Mammoth to Spear
Pavement Failure
Underground Constr. Co. | 12-20-68 | 50% | 10,000.00 | 5,823.00 | S.B. |
| Radio St.
Mammoth to Greenwich
Pavement Reconstruction
U. Peira & Son | 1-10-69 | 6-9-69 | 41,876.00 | 41,876.00 | S.B. |
| Radio St.
Mammoth to Griffith Sts.
Pavement Replacement
Anuzzi Concrete Service | 12-6-68 | 3-10-69 | 9,895.00 | 9,895.00 | S.B. |
| Radio St.
Mammoth to Griffith Sts.
Pavement Replacement
Fayer Electric | 9-20-68 | 1-6-69 | 3,188.00 | 3,188.00 | GEN |
| Radio St.
Mammoth to Embarcadero
Pavement Narrowing
Fayer Paving Co. | 11-13-68 | 4-14-69 | 1,986.50 | 1,986.50 | Sp Rd |

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1968-1969 G - INFORMAL CONTRACTS

| <u>DESCRIPTION & CONTRACTOR</u> | <u>AWARDED</u> | <u>COMPLETION
DATE OR %</u> | <u>CONTRACT
AMOUNT</u> | <u>AMOUNT
EXPENDED</u> | |
|--|----------------|---------------------------------|----------------------------|----------------------------|--|
| Calhoun Terrace
Pier Protection
Cement Gun Constr. Co. | 1- 8-69 | 3-11-69 | \$ 3,512.00 | \$ 3,512.00 | |
| Sea Cliff
Pumping Station No. 2
Control System Modifica-
tion
Electrical Constr. Co. | 1- 8-69 | 6-30-69 | 2,526.00 | 2,526.00 | |
| Lombard St.
Van Ness - to - Polk
Sewer Reconstruction
Annuzzi Concrete Service | 1-15-69 | 6- 4-69 | 30,569.00 | 30,569.00 | |
| Green St.
Sansome to Montgomery Slide
Slide
Frank Anderson Inc. | 2- 7-69 | 4-17-69 | 1,502.72 | 1,502.72 | |
| Green St.
Sansome to Montgomery
Remove Loose Rock
Frank Anderson Inc. | 2-14-69 | 3- 4-69 | 3,219.27 | 3,219.27 | |
| Green St.
Grant to Kearny
Sewer Failure
U. Peira & Son | 3-19-69 | 5- 2-69 | 20,943.55 | 20,943.55 | |
| Southeast Water Pollution
Control Plant
Effluent Sewer Manholes
Mitchell Plumbing Co. | 6-13-69 | 50% | 47,000.00 | 0 | |
| Lakeside Neighborhood
Parking Lot
Lighting Improvement
Rudolph Electric | 4-18-69 | 0 | 1,950.00 | 0 | |
| Portola Ave. & 18th
Street Lighting
R. Flatland | 5- 9-69 | 0 | 1,240.00 | 0 | |
| Total Awarded & Expended During Fiscal Year | | | \$195,393.34 | \$152,980.70 | |

APPENDIX II

BUREAU OF ARCHITECTURE
CURRENT CONTRACT DATA SUMMARYShowing All Contract Work Awarded or Under Construction
July 1, 1968 - June 30, 1969

Contracts Awarded During Fiscal Year 1968-1969

| Table | Type of Construction | Contracts
No. | Awarded Aggregate
Value | Amount Expended
Fiscal Year 1968-69 |
|-------|---------------------------------------|------------------|----------------------------|--|
| A-1 | New School Construction | 4 | \$ 8,041,900 | \$ 1,077,362 |
| A-2 | Misc. Alterations -
Schools | 50 | 958,445 | 534,722 |
| A-3 | Acoustical Work | 3 | 90,968 | 9,313 |
| A-4 | Roofing Jobs | 2 | 5,790 | 5,790 |
| A-5 | Resilient Flooring | 1 | 2,100 | 2,100 |
| A-6 | Int. & Ext. Painting | 5 | 145,718 | 14,187 |
| A-7 | Yard Paving | 4 | 94,359 | 54,475 |
| B-1 | Fire Department -
New Construction | 0 | 0 | 0 |
| B-2 | Fire Department -
Reconstruction | 2 | 419,240 | 143,405 |
| C-1 | S.F. General Hospital | 3 | 85,298 | 17,534 |
| C-2 | Laguna Honda Hospital | 1 | 34,880 | 7,848 |
| C-3 | Health Center Building | 2 | 1,538,000 | 472,992 |
| D | DeYoung Museum | 0 | 0 | 0 |
| E | Youth Guidance Center | 1 | 22,362 | 22,362 |
| F | Civic Center | 10 | 110,449 | 108,283 |
| G | Hall of Justice | 8 | 335,083 | 247,697 |
| H | Miscellaneous | 17 | 238,400 | 144,702 |
| | Sub totals | 113 | \$12,122,992 | \$ 2,862,772 |

Other Contracts Under Construction During Fiscal Year 1968-69

| Table | Type of Construction | Contracts
No. | Awarded Aggregate
Value | Amount Expended
Fiscal Year 1968-69 |
|-------|---------------------------------------|------------------|----------------------------|--|
| A-1 | New School Construction | 7 | \$ 6,182,468 | \$ 5,159,780 |
| A-2 | Misc. Alterations -
Schools | 9 | 854,292 | 885,655 |
| A-3 | Acoustical Work | 2 | 83,821 | 83,821 |
| A-4 | Roofing Jobs | 1 | 48,535 | 48,535 |
| A-5 | Resilient Flooring | 1 | 4,261 | 5,328 |
| A-6 | Int. & Ext. Painting | 12 | 113,403 | 114,488 |
| A-7 | Yard Paving | 1 | 3,927 | 3,927 |
| B-1 | Fire Department -
New Construction | 1 | 392,666 | 350,410 |
| B-2 | Fire Department -
Reconstruction | 0 | 0 | 0 |
| C-1 | S.F. General Hospital | 2 | 176,960 | 170,513 |
| C-2 | Laguna Honda Hospital | 2 | 30,028 | 30,028 |
| C-3 | Health Center Building | 3 | 642,682 | 662,991 |
| D | DeYoung Museum | 1 | 1,908 | 1,908 |
| E | Youth Guidance Center | 1 | 4,974 | 4,974 |
| F | Civic Center | 3 | 357,255 | 372,429 |
| G | Hall of Justice | 6 | 65,311 | 72,440 |
| H | Miscellaneous | 10 | 1,428,915 | 1,144,972 |
| | Sub totals | 62 | \$10,391,406 | \$ 9,112,199 |

III All Contracts Awarded Or Under Construction During Fiscal Year 1968-69
(Total of I and II)

| Table | Type of Construction | Contracts No. | Awarded Aggregate Value | Amount Expended Fiscal Year 1968-69 |
|--------|------------------------------------|---------------|-------------------------|-------------------------------------|
| A-1 | New School Construction | 11 | \$14,224,368 | \$ 6,237,142 |
| A-2 | Misc. Alterations - Schools | 59 | 1,812,737 | 1,420,377 |
| A-3 | Acoustical Work | 5 | 174,789 | 93,134 |
| A-4 | Roofing Jobs | 3 | 54,325 | 54,325 |
| A-5 | Resilient Flooring | 2 | 6,361 | 7,428 |
| A-6 | Int. & Ext. Painting | 17 | 259,121 | 128,675 |
| A-7 | Yard Paving | 5 | 98,286 | 58,402 |
| B-1 | Fire Department - New Construction | 1 | 392,666 | 350,410 |
| B-2 | Fire Department - Reconstruction | 2 | 419,240 | 143,405 |
| C-1 | S.F. General Hospital | 5 | 262,258 | 188,047 |
| C-2 | Laguna Honda Hospital | 3 | 64,908 | 37,876 |
| C-3 | Health Center Building | 5 | 2,180,682 | 1,135,983 |
| D | DeYoung Museum | 1 | 1,908 | 1,908 |
| E | Youth Guidance Center | 2 | 27,336 | 27,336 |
| F | Civic Center | 13 | 467,704 | 480,712 |
| G | Hall of Justice | 14 | 400,394 | 320,137 |
| H | Miscellaneous | 27 | 1,667,315 | 1,289,674 |
| Totals | | 175 | \$22,514,398 | \$11,974,971 |

On the following pages appear separate tables of current contracts for each of the types of construction listed above. The source of the funds used to finance each project is indicated in the tables according to the following:

A b b r e v i a t i o n L e g e n d

| Designation | Description of Fund |
|----------------------|---|
| General | General Fund City and County |
| District | Funds of S.F. Unified School District |
| Childrens' Center | S.F. Unified School District, Special Fund |
| Private | Private Donation |
| 1964 School | S.F. Unified School District Bond Issue voted November 3, 1964, in amount of \$31,464,500 |
| 1964 Bond Fund | Fire Department Bond Issue voted November 3, 1964, in amount of \$4,890,000 |
| School District Fund | |
| Special Reserve | |

CURRENT CONTRACT DATA 1968-1969

| Description & Contractor | Awarded | Completed Date or % | Contract Amount | Amount Expended | Fund |
|---|----------|---------------------|-----------------|-----------------|---------------------------------|
| NEW SCHOOL CONSTRUCTION | | | | | |
| City College of S.F. (2700)
Educational Services Bldg.
Carl W. Olson & Son | 12-28-66 | 9-18-68 | \$1,239,500 | \$1,251,350 | 1964 School |
| Revere School Annex (2850)
General Construction
Martinelli Const.Co.Inc. | 6-7-67 | 1-14-69 | 826,200 | 843,503 | 1964 School |
| Measure Island Elem. Sch. (2750)
General Construction
Payne Construction Co. | 6-30-67 | 10-31-68 | 465,768 | 467,645 | Sch. Dist.Fund
Spec. Reserve |
| Marina Vista School (2900)
General Construction
Martinelli Const.Co.Inc. | 8-2-67 | 76% | 878,000 | 602,688 | 1964 School |
| Wanett Elementary School (2825-R)
General Construction
Pacific Coast Builders | 10-4-67 | 6-24-69 | 739,000 | 742,314 | 1964 School |
| Dorado Elem. School (2875)
General Construction
Arntz Construction Co. | 10-25-67 | 99% | 744,000 | 677,067 | 1964 School |
| City College of S.F. (2800-R)
Lab & Classroom Bldg.
Wright & Oretsky | 3-29-68 | 45% | 1,290,000 | 575,213 | 1964 School |
| Measure Island School (2973)
Gen. Const. Unit II
Payne Construction Co. | 9-27-68 | 36% | 319,000 | 125,349 | 1964 School |
| Trero Hill Jr. High School
Gen. Const. (2970-A)
James E. Roberts Co. | 11-27-68 | 9.5% | 3,422,900 | 357,950 | 1964 School |
| Sanitation Valley Jr. High School
Gen. Const. (2950)
Engstrum & Nourse | 12-18-68 | 12% | 3,770,000 | 524,898 | 1964 School |
| St Harte School Addition
Gen. Const. (3000)
De Narde Construction Co. | 2-14-69 | 10% | 530,000 | 69,165 | 1964 School |
| Total Aggregate Value and Amount Expended | | | \$14,224,368 | \$6,237,142 | |

CURRENT CONTRACT DATA 1968-69

| Description & Contractor | Awarded | Completed Date or % | Contract Amount | Amount Expended | Fund |
|--|---------|---------------------|-----------------|-----------------|------------|
| A-2 MISCELLANEOUS ALTERATIONS | | | | | |
| Kate Kennedy School (2611)
Gen. Rehabilitation
De Narde Const. Co. | 10-7-66 | 6-4-68 | \$ 243,192 | \$ 257,609 | 1964 Schol |
| Balboa High School (2864)
Repl. Viewing Stand Seating
H. E. Rahlmann Co. | 11-8-67 | 11-30-68 | 43,982 | 60,875 | District |
| Lincoln Building (2917)
Basement Retaining Wall
Stenmark Const. Co., Inc. | 1-3-68 | 99% | 33,280 | 29,652 | District |
| A. Lincoln High School (2903)
Alts. to Graphic Arts Rms.
Kenneth K. Lind | 2-7-68 | 10-27-68 | 43,897 | 43,897 | District |
| Board of Education (2872)
Renovations & Const.
Shop Building
S.J. Amoroso Constr. Co. | 3-6-68 | 12-26-68 | 398,424 | 399,845 | District |
| Farragut School (2839)
Removal of Fire Escape
Pearson & Johnson | 4-10-68 | 8-21-68 | 1,895 | 1,895 | District |
| Hawthorne School (2951)
Kitchen Alterations
Trans-Western Const. | 4-10-68 | 9-5-68 | 3,624 | 3,624 | District |
| Yerba Buena School (2914-R)
New Kitchen & Cafeteria
Trans-Western Const. | 5-22-68 | 11-29-68 | 31,988 | 31,988 | District |
| John Muir School (2972)
New Classrooms & Misc.
Moreau Const. Co. | 6-14-68 | 1-31-69 | 54,010 | 56,270 | District |
| Polytechnic High School (2926)
Shop Alterations
Walter Petersen & Co. | 7-3-68 | 95% | 227,000 | 207,278 | District |
| Bryant School (2996)
Plastic Glazing of Windows
William McIntosh & Son | 7-3-68 | 11-15-68 | 2,700 | 2,700 | District |
| Various Schools (2974)
Boiler Control Replacement
Cornely Company | 7-3-68 | 2-1-69 | 36,900 | 37,767 | District |
| Mission High School (2957)
New Dance Studio
Trans Western Co. | 7-3-68 | 12-26-68 | 11,950 | 11,950 | District |
| Lowell High School (2988)
Athletic Field & Site Work
Economy Garden Supply | 7-3-68 | 12-19-68 | 25,907 | 25,907 | District |
| Bret Harte School (2978)
Boiler Replacement
Cornely Company | 7-3-68 | 9-18-68 | 4,660 | 4,660 | District |
| Emerson School (2994)
Plastic Glazing of Windows
Wm. McIntosh & Son | 7-3-68 | 11-1-68 | 4,628 | 4,628 | District |

CURRENT CONTRACT DATA 1968-1969

| Description & Contractor | Awarded | Completed Date or % | Contract Amount | Amount Expended | Fund |
|---|---------|---------------------|-----------------|-----------------|----------|
| A-2 MISCELLANEOUS ALTERATIONS (cont.) | | | | | |
| City College of S.F. (2999)
Library Carpeting
Floor Styles | 7-24-68 | 10-31-68 | \$ 19,235 | \$ 19,235 | District |
| John Muir School (2993-R)
Plastic Glazing of Windows
Moreau Construction Co. | 7-24-68 | 1-2-69 | 5,294 | 5,343 | District |
| Marshall School (2991)
Plastic Glazing of Windows
Wm. McIntosh & Son | 7-17-68 | 1-6-69 | 4,843 | 5,574 | District |
| Galileo High School (2997)
Install Vacuum Heating Booster
Pump - Polk St. Wing
Cornely Company | 7-17-68 | 1-9-69 | 9,700 | 9,700 | District |
| Polytechnic High School (2965)
New Boiler Stack
Valley Sheet Metal Co. | 7-17-68 | 12-31-68 | 10,939 | 10,939 | District |
| Various Schools (3002)
Wire Mesh Enclosures Phase II
Wm. Mc Intosh & Son | 7-17-68 | 9-5-68 | 1,380 | 1,380 | District |
| Various Schools (3001)
Wire Mesh Enclosures Phase I
Anchor Post Products | 7-17-68 | 10-14-68 | 2,450 | 2,450 | District |
| Various Schools (3003)
Wire Mesh Enclosures Phase III
Wm. McIntosh & Son | 7-17-68 | 10-2-68 | 1,610 | 1,610 | District |
| Polytechnic High School (2955)
New Toilet Rooms
Walter Petersen & Co. | 7-17-68 | 99% | 17,990 | 22,578 | District |
| Various-Balboa High School (2931-R)
Lowell High School
Install Vacuum Heating &
Circulating Pumps
Cornely Co. | 7-24-68 | 1-9-69 | 11,900 | 11,900 | District |
| John McLaren School (3004)
Auditorium Carpeting
Floor Styles | 7-24-68 | 10-18-68 | 2,855 | 2,855 | District |
| Alloa School (2995-R)
Plastic Glazing of Windows
Moreau Construction Co. | 8-7-68 | 11-10-68 | 6,435 | 6,435 | District |
| Balboa High School (3011)
Wire Mesh Fencing
Anchor Fence Division | 9-4-68 | 1-17-69 | 1,968 | 1,968 | District |
| Diamond Heights Elem. School (3013)
New Concrete Sidewalk
F. Ferrando & Co. | 9-4-68 | 11-15-68 | 1,486 | 1,486 | District |
| Linza School (3016)
Faculty Parking Facility
Venturini Trucking
& Grading Co. | 9-4-68 | 11-14-68 | 7,868 | 7,868 | District |

CURRENT CONTRACT DATA 1968-1969

| Description & Contractor | Awarded | Completed
Date or % | Contract
Amount | Amount
Expended | Fund |
|--|----------|------------------------|--------------------|--------------------|----------------------|
| A-2 MISCELLANEOUS ALTERATIONS (cont.) | | | | | |
| Polytechnic High School (3017)
Replacement of Domestic
Hot Water Piping System
Siro's Plumbing Co. | 9-4-68 | 4-3-69 | \$ 21,978 | \$ 21,978 | District |
| Frederick Burke School (3020)
New Wall Opening Between
Classrooms #9 & #10
Kenneth K. Lind | 9-18-68 | 11-1-68 | 2,200 | 2,200 | District |
| City College of S.F. (3018)
Replacement of Steam Piping
& Office Heaters At
Smith Hall
Alart Plumbing | 9-18-68 | 1-6-69 | 3,493 | 3,493 | District |
| Hunters Point No. 1 & Jedediah (3014)
Smith Schools to John
McLaren Schl. Property
Relocation of Portable Bldgs.
Kenneth K. Lind | 9-18-68 | 32% | 34,527 | 16,015 | District |
| City College of S.F. (2936-R)
Gas & Electric Services
New Portable Classrooms
Decker Electric Co. | 10-9-68 | 12-17-68 | 6,242 | 6,242 | District |
| Visitation Valley Jr. High
School (3027)
Wire Mesh Enclosures
Western Steel & Wire Co. | 10-16-68 | 1-6-69 | 325 | 325 | District |
| Balboa High School (2980)
Alt's. to Electronics Shop
Wm. McIntosh & Son | 11-13-68 | 99% | 45,453 | 39,238 | District |
| General Administrative Office (3038)
Bldg., First Flr. Corridors
Misc. Work
Monty W. Connery | 12-4-68 | 3-11-69 | 5,697 | 5,697 | District |
| Presidio Jr. High School (3048)
Woodshop Sawdust Collection
System
Rees Blow Pipe Mfg. Co. | 12-27-68 | 2-6-69 | 1,707 | 1,479 | District |
| Westside Courts Children's (3058)
Centers, Storage Shed
Trans-Western Const. Co. | 1-17-69 | 4-7-69 | 1,480 | 1,480 | Children's
Center |
| James Lick Jr. High School (3054)
New Lighting Fixtures, Rm. 9
Fagan Electric Co. | 1-17-69 | 5-7-69 | 1,600 | 1,600 | District |
| Various Schools (3056)
Wire Mesh Fence Work
Western Steel & Wire Co. | 1-17-69 | 6-24-69 | 1,875 | 1,875 | District |
| Development Center For (3063)
Handicapped Minors
Storage Shed
Elbe Construction Co. | 1-29-69 | 4-7-69 | 1,397 | 1,397 | District |

CURRENT CONTRACT DATA 1968-1969

| Description & Contractor | Awarded | Completed
Date or % | Contract
Amount | Amount
Expended | Fund |
|---|---------|------------------------|--------------------|--------------------|----------------------|
| 2 MISCELLANEOUS ALTERATIONS (cont.) | | | | | |
| Age-Broderick & Laguna-G.G. (3060)
Children's Centers
New Kitchen Cabinets
Monty W. Connerly | 1-29-69 | 4-29-69 | \$ 3,260 | \$ 3,260 | Children's
Center |
| Francis Scott Key Annex (3064)
Foundation Fill
Chet C. Smith Trucking | 2-28-69 | 4-21-69 | 4,387 | 4,387 | District |
| Strero Terrace Children's Ctr.
Wire Mesh Slat Fencing (3068)
San Jose Steel Co., Inc. | 2-28-69 | 6-3-69 | 738 | 738 | Children's
Center |
| Polytechnic High School (3061)
Central Broadcasting Sys.
Cormac | 2-28-69 | 5-14-69 | 8,410 | 8,410 | District |
| Galileo High School (3026)
New Rifle Range & Classroom
Wilner Construction Co. | 3-21-69 | 0 | 41,099 | 0 | District |
| Unshine Orthopedic School (3075)
Court Covering
Malott & Peterson-Grundy | 4-11-69 | 0 | 14,887 | 0 | District |
| Graham Lincoln High School (3062)
Kitchen & Cafeteria Elec. Wks.
Grandi Electric Co. | 6-25-69 | 0 | 4,190 | 0 | District |
| Verett Jr. High School (3067)
Elec. Service & Feeder Alt.
Ed. W. Scott Elec. Co. | 4-11-69 | 0 | 17,794 | 0 | District |
| Marina Jr. High School (3070)
Steam Table Alterations
Thoma's Sheet Metal | 4-11-69 | 70% | 1,999 | 0 | District |
| Benjamin Franklin Jr. High School
New Elec. Service (3084)
McClure Electric Inc. | 4-23-69 | 15% | 44,795 | 6,047 | District |
| Various Schools (3085)
Wire Mesh Enclosures
Wm. McIntosh & Son | 4-23-69 | 0 | 5,568 | 0 | District |
| Wilson School (2712)
Cafeteria Alterations
S.P.D. Const. Inc. | 4-23-69 | 8% | 69,100 | 2,650 | District |
| Various Schools (3098)
New Prefab. Port. Bldgs.
Speedspace Corp. | 5-29-69 | 0 | 168,929 | 0 | District |
| Various Children's Centers (3112)
Floor Coverings
Floor Styles, Inc. | 6-18-69 | 0 | 7,817 | 0 | District |
| City College of S.F. (3090)
Relocate 3 Portable Bldgs.
Ravano Const. Co. | 6-20-69 | 0 | 17,800 | 0 | District |
| Total Aggregate Value and Amount Expended | | | \$1,812,737 | \$1,420,377 | |

CURRENT CONTRACT DATA 1968-1969

| Description & Contractor | Awarded | Completed
Date or % | Contract
Amount | Amount
Expended | Fund |
|--|----------|------------------------|--------------------|--------------------|----------|
| A-3 ACOUSTICAL WORK | | | | | |
| John Muir School (2959) | | | | | |
| Tile & Light Fixtures
McClure Electric | 5-29-68 | 10-15-68 | \$ 53,290 | \$ 53,290 | District |
| Laguna Honda School (2960) | | | | | |
| Acous. Ceilings &
Addn. Light Fixtures
Wm. McIntosh & Son | 5-22-68 | 9-13-68 | 30,531 | 30,531 | District |
| A. Lincoln High School (3029) | | | | | |
| Acous. Ceilings & Light Fixtures
McClure Electric Inc. | 11-13-68 | 1-6-69 | 7,121 | 7,121 | District |
| Portola Jr. High School (3087) | | | | | |
| Acous. Ceilings & Light Fixtures
McClure Elec. Inc. | 5-14-69 | 10% | 24,358 | 2,192 | District |
| Alvarado School (2985) | | | | | |
| Install of Acous. Ceilings &
Light Fixtures
McClure Electric Co. | 5-21-69 | 0 | 59,489 | 0 | District |
| Total Aggregate Value and Amount Expended | | | \$ 174,789 | \$ 93,134 | |

CURRENT CONTRACT DATA 1968-1969

| Description & Contractor | Awarded | Completed
Date or % | Contract
Amount | Amount
Expended | Fund |
|---|----------|------------------------|--------------------|--------------------|-----------------------|
| 4 ROOFING JOBS | | | | | |
| Shine Orthopedic School (2909) | | | | | |
| Roof Rehabilitation | | | | | |
| Western Roofing Service | 4-10-68 | 8-30-68 | \$ 48,535 | \$ 48,535 | District |
| gonne & Laguna-Golden Gate | | | | | |
| Nurseries (3053) | | | | | |
| Re-roofing | | | | | |
| Western Roofing Service | 12-27-68 | 5-7-69 | 3,323 | 3,323 | Children's
Centers |
| rious Schools (3072) | | | | | |
| Daniel Webster & Miraloma | | | | | |
| Roof Repair | | | | | |
| Reliable Roofing Co. | 3-12-69 | 6-24-69 | 2,467 | 2,467 | District |
| Total Aggregate Value and Amount Expended | | | \$ 54,325 | \$ 54,325 | |

CURRENT CONTRACT DATA 1968-69

| Description & Contractor | Awarded | Completed
Date or % | Contract
Amount | Amount
Expended | Fund |
|--|---------|------------------------|--------------------|--------------------|------|
| -5 RESILIENT FLOORING | | | | | |
| Madison Children's Center (2971)
Carpet & Floor Covering
Holsinger, Inc. | 5-29-68 | 12-6-68 | \$ 4,261 | \$ 5,328 | Dis |
| Mission High School (3023)
Resilient Flooring
F. C. Scheven | 9-18-68 | 11-19-68 | 2,100 | 2,100 | Dis |
| Total Aggregate Value and Amount Expended | | | \$ 6,361 | \$ 7,428 | |

CURRENT CONTRACT DATA 1968-1969

| Description & Contractor | Awarded | Completed Date or % | Contract Amount | Amount Expended | Fund |
|---|---------|---------------------|-----------------|-----------------|----------|
| 6 PAINTING | | | | | |
| Lincoln School (2924)
Exterior Painting
Benco Painting | 3-6-68 | 8-21-68 | \$ 4,082 | \$ 4,082 | District |
| Utro School (2933)
Exterior Painting
Anity Painting Service | 3-6-68 | 7-29-68 | 7,500 | 7,500 | District |
| Meddiah Smith School (2923)
Exterior Painting
R. P. Paoli & Co. | 3-6-68 | 8-29-68 | 5,790 | 5,790 | District |
| Jurnett School (2927)
Exterior Painting
R. P. Paoli & Co. | 3-6-68 | 9-5-68 | 4,830 | 4,830 | District |
| Duise M. Lombard School
Ext. Painting (2937)
Giampolini & Co. | 3-13-68 | 7-25-68 | 9,060 | 9,060 | District |
| Winfield Scott School (2928)
Exterior Painting
Cal-Western Paint Co. | 3-22-68 | 9-4-68 | 6,884 | 6,884 | District |
| Judley Stone School (2941)
Exterior Painting
Russell Hinton Co. | 3-27-68 | 8-22-68 | 15,363 | 15,913 | District |
| Washington Irving School (2940)
Exterior Painting
Beck Bros. | 3-27-68 | 9-13-68 | 4,960 | 4,960 | District |
| McKinley School (2948)
Exterior Painting
Beck Bros. | 4-5-68 | 8-14-68 | 10,270 | 10,270 | District |
| Wptos Jr. High School (2949)
Exterior Painting
Russell Hinton Co. | 4-5-68 | 8-8-68 | 10,250 | 10,250 | District |
| Merba Buena School (2953)
Interior Painting
R. P. Paoli & Co. | 4-10-68 | 8-15-68 | 10,584 | 10,584 | District |
| Grant School (2952)
Interior Painting
Beck Bros. | 4-10-68 | 9-18-68 | 23,830 | 24,365 | District |
| Northridge Children's Center (3071)
Interior & Ext. Painting
Mason & Mason Painting Co. | 3-12-69 | 75% | 4,940 | 3,368 | District |
| George Washington High School (3073)
Exterior Repairs & Painting
J. Wm. Sorensen, Inc. | 3-28-69 | 18% | 66,784 | 10,819 | District |
| Benjamin Franklin Jr. High School
Interior Painting (3076)
Beck Bros. | 4-11-69 | 0 | 23,832 | 0 | District |
| Roosevelt Jr. High School (3077)
Interior Painting
Russell Hinton Co. | 4-23-69 | 0 | 27,900 | 0 | District |

CURRENT CONTRACT DATA 1968-1969

| Description & Contractor | Awarded | Completed
Date or % | Contract
Amount | Amount
Expended | Fund |
|---|---------|------------------------|--------------------|--------------------|----------|
| A-6 PAINTING (cont.) | | | | | |
| Portola Jr. High School (3081)
Interior & Exterior Paint.
R. P. Paoli & Co. | 4-23-69 | 0 | 22,262 | 0 | District |
| Total Aggregate Value and Amount Expended | | | \$ 259,121 | \$ 128,675 | |

CURRENT CONTRACT DATA 1968-1969

| Description & Contractor | Awarded | Completed
Date or % | Contract
Amount | Amount
Expended | Fund |
|---|---------|------------------------|--------------------|--------------------|----------------------|
| 7 YARD PAVING | | | | | |
| Arba Buena School (2975)
Children's Play Yard
Pearson & Johnson | 5-29-68 | 10-14-68 | \$ 3,927 | \$ 3,927 | Children's
Center |
| Francis Scott Key Annex (2977)
Children's Ctr. Play Yard
Monty W. Connery | 7-3-68 | 11-17-68 | 11,152 | 11,152 | Children's
Center |
| Various Schools (2983)
Painting Game Lines
Fiberaised Bar & Line | 7-3-68 | 8-21-68 | 4,290 | 4,290 | District |
| Various Schools (2982)
Resur. Yard Paving &
Painting Game Lines
Malott & Peterson-Grundy | 7-3-68 | 9-3-68 | 21,447 | 21,447 | District |
| Various Schools (3099)
Grading, Paving &
Underground Utilities
J. H. Fitzmaurice, Inc. | 5-23-69 | 34% | 57,470 | 17,586 | District |
| Total Aggregate Value and Amount Expended | | | \$ 98,286 | \$ 58,402 | |

CURRENT CONTRACT DATA 1968-1969

| Description & Contractor | Awarded | Completed
Date or % | Contract
Amount | Amount
Expended | Fund |
|---|---------|------------------------|--------------------|--------------------|--------------------|
| B-1 FIRE DEPARTMENT - NEW CONSTRUCTION | | | | | |
| Fire Station #17 (2888)
Gen. Construction
Leon Carlen | 5-10-68 | 91% | \$ 392,666 | \$ 350,410 | 1964 Bond
Issue |
| Total Aggregate Value and Amount Expended | | | \$ 392,666 | \$ 350,410 | |

CURRENT CONTRACT DATA 1968-1969

| Description & Contractor | Awarded | Completed
Date or % | Contract
Amount | Amount
Expended | Fund |
|---|---------|------------------------|--------------------|--------------------|---------|
| B-2 FIRE DEPARTMENT - RECONSTRUCTION | | | | | |
| Fire Station Company No. 46 | | | | | |
| Additions & Alterations (2981) | | | | | |
| Kenneth K. Lind | 9-20-68 | 98% | \$ 62,016 | \$ 55,120 | General |
| Engine Company No. 43 (3033) | | | | | |
| General Construction | | | | | |
| Nibbi Bros. | 1-15-69 | 20% | 357,224 | 88,285 | General |
| Total Aggregate Value and Amount Expended | | | \$ 419,240 | \$ 143,405 | |

CURRENT CONTRACT DATA 1968-1969

| Description & Contractor | Awarded | Completed
Date or % | Contract
Amount | Amount
Expended | Fund |
|--|---------|------------------------|--------------------|--------------------|--------|
| C-1 SAN FRANCISCO HOSPITAL | | | | | |
| X-Ray Area, Bldg. 6, 2nd Floor
Air Conditioning Sys. (2962)
Colan Heating & Sheetmetal | 4-17-68 | 8-19-68 | \$ 7,006 | \$ 7,006 | Genera |
| Ward Bldgs. 50 & 70 (2913)
Temporary Qtrs. for Patients
Leon Carlen | 6-26-68 | 96% | 169,954 | 163,507 | Genera |
| Psychiatric Bldg. 90 (3010)
Emergency Repairs to Fire
Damage
Moreau Construction Co. | 8-9-68 | 10-10-68 | 2,943 | 2,943 | Genera |
| S.F. General Hospital (3074)
Misc. Repairs to Psychiatric
Building No. 90
Arthur W. Baum | 4-2-69 | 20% | 79,458 | 14,591 | Genera |
| S.F. General Hospital (3095)
Case Work Alter. Histology
Lab, Pathology Bldg.
H. E. Rahlmann Co. | 6-11-69 | 0 | 2,897 | 0 | Genera |
| Total Aggregate Value and Amount Expended | | | \$ 262,258 | \$ 188,047 | |

CURRENT CONTRACT DATA 1968-1969

| Description & Contractor | Awarded | Completed
Date or % | Contract
Amount | Amount
Expended | Fund |
|---|---------|------------------------|--------------------|--------------------|---------|
| C-2 LAGUNA HONDA HOSPITAL | | | | | |
| Clarendon Hall (2984) | | | | | |
| Exterior Painting | | | | | |
| Cal-Western Painting | 6-19-68 | 9-14-68 | \$ 11,200 | \$ 11,200 | General |
| Laguna Honda Hospital (2968) | | | | | |
| Misc. Alterations | | | | | |
| Trans Western Const. | 6-19-68 | 12-13-68 | 18,828 | 18,828 | General |
| Laguna Honda Hospital (3015) | | | | | |
| Fire Protection Sprinkler | | | | | |
| Allan Automatic Sprinkler Corporation | 3-28-69 | 65% | 34,880 | 7,848 | General |
| Total Aggregate Value and Amount Expended | | | \$ 64,908 | \$ 37,876 | |

CURRENT CONTRACT DATA 1968-69

| Description & Contractor | Awarded | Completed
Date or % | Contract
Amount | Amount
Expended | Fund |
|--|---------|------------------------|--------------------|--------------------|---------|
| C-3 HEALTH CENTER BUILDINGS | | | | | |
| Sunset-Richmond Health Center (2757)
General Construction
John A. Nelson | 5-31-67 | 10-21-68 | \$ 636,700 | \$ 657,009 | General |
| Bayview Health Center (2986)
Integrate Paging Systems
Monty W. Connery | 6-12-68 | 8-14-68 | 875 | 875 | General |
| Bayview Health Center (2967-R)
Garage Door Grille
The Kinnear Mfg. Co. of Cal. | 6-12-68 | 3-10-69 | 3,360 | 3,360 | General |
| Bayview Health Center (2958)
Chain Link Fence
Monty W. Connery | 4-3-68 | 7-17-68 | 1,747 | 1,747 | General |
| Health Center No. 4 (2939)
(Chinatown-North Beach)
Gen. Construction
Northwest Construction | 8-2-68 | 31% | 1,538,000 | 472,992 | General |
| Total Aggregate Value and Amount Expended | | | \$2,180,682 | \$1,135,983 | |

CURRENT CONTRACT DATA 1968-69

| Description & Contractor | Awarded | Completed
Date or % | Contract
Amount | Amount
Expended | Fund |
|---|---------|------------------------|--------------------|--------------------|-------|
| - De YOUNG MEMORIAL MUSEUM | | | | | |
| undage Wing (2945) | | | | | |
| Scroll Storage Cabinets | | | | | |
| Berlin Food Equipment | 4-10-68 | 9-30-68 | \$ 1,908 | \$1,908 | Gener |
| Total Aggregate Value and Amount Expended | | | \$ 1,908 | \$1,908 | |

CURRENT CONTRACT DATA 1968-69

| Description & Contractor | Awarded | Completed
Date or % | Contract
Amount | Amount
Expended | Fund |
|---|----------|------------------------|--------------------|--------------------|---------|
| - YOUTH GUIDANCE CENTER | | | | | |
| Renovations to Admin. Bldg. (2920)
Second Floor South
Pearson & Johnson | 2-28-68 | 10-7-68 | \$ 4,974 | \$ 4,974 | General |
| Youth Guidance Center (3032)
Renov. to Cottage G-1
H. E. Rahlmann Co. | 11-13-68 | 3-19-69 | \$22,362 | \$22,362 | General |
| Total Aggregate Value and Amount Expended | | | \$27,336 | \$27,336 | |

CURRENT CONTRACT DATA 1968-69

| Description & Contractor | Awarded | Completed Date or % | Contract Amount | Amount Expended | Fund |
|---|----------|---------------------|-----------------|-----------------|------|
| CIVIC CENTER | | | | | |
| La House & Vets Bldg. (2760-R)
Lab. Phase III
Rz Brothers | 6-14-67 | 99% | \$290,475 | \$304,508 | Gene |
| Hall (2929)
D.P. Complex - Phase II
Inner Construction Co. | 4-3-68 | 10-18-68 | 64,883 | 66,024 | Gene |
| Hall (2989)
Room 236 - Alterations
County W. Connery | 6-21-68 | 8-8-68 | 1,897 | 1,897 | Gene |
| Hall (2990)
D.P. Section, Controllers Office
New Exits & Misc. Work
Reau Construction Co. | 7-24-68 | 1-14-69 | 10,595 | 11,144 | Gene |
| Memorial Opera House (3008)
Replacement of Motors & Controls
Scenic Effects Machines
Identhal-Gosliner Elec. Works | 8-21-68 | 10-7-68 | 4,250 | 4,250 | Gene |
| Trains Building (3005)
Kitchen Renovations & Misc.
Roma's Sheet Metal | 9-4-68 | 3-14-69 | 2,896 | 2,896 | Gene |
| Director's Office - City Hall (3037)
Room 101 - Misc. Alterations
Rise Builders, Inc. | 11-8-68 | 5-27-69 | 21,500 | 22,130 | Gene |
| Hall (3030)
Room 165, Jury Interview Area
Partition Work
Specialized Interior System | 11-27-68 | 5-1-69 | 2,601 | 2,601 | Gene |
| Hall (3059)
City Attorney's Office
Alterations
County W. Connery | 1-17-69 | 6-6-69 | 5,796 | 5,796 | Gene |
| Trains Building (3009)
City Museum-Storage &
Exhibit Handling Area
Phase II
J. McIntosh & Son | 10-4-68 | 6-13-69 | 57,021 | 59,466 | Gene |
| Memorial Opera House &
Vets Bldg. (3088)
Finishing Ornamental Iron
Work
Quandt & Sons, Inc. | 4-30-69 | 0 | 4,247 | 0 | Gene |
| Staff of Supervisors (3104)
Installation of Movable Part.
Partition Specialties, Inc. | 5-29-69 | 0 | 1,247 | 0 | Gene |
| Director's Office, City Hall
Inl. Partition Work (3120)
Specialized Interior Systems | 6-25-69 | 0 | 296 | 0 | Gene |
| Aggregate Value and Amount Expended | | | 467,704 | 480,712 | |

CURRENT CONTRACT DATA 1968-69

| Description & Contractor | Awarded | Completed Date or % | Contract Amount | Amount Expended | Fur |
|--|----------|---------------------|-----------------|-----------------|-----|
| - HALL OF JUSTICE | | | | | |
| Il of Justice (2904)
Basement Parking Area
Security Gates
Trans-Western Const. Co. | 1-19-68 | 10-14-68 | \$ 18,834 | \$ 23,854 | Ger |
| olation Cell Repairs (2921)
County Jail - 7th Floor
Kenneth K. Lind | 2-16-68 | 9-23-68 | 16,672 | 16,946 | Ger |
| Il of Justice (2942)
Alter. to Control Center
Traffic Bur. Police Dept.
Moreau Constr. Co. | 3-22-68 | 10-1-68 | 9,339 | 11,174 | Ger |
| st. Atty's Office (2963)
Alterations & Tackboards
F. W. Jones, Inc. | 4-24-68 | 7-13-68 | 7,646 | 7,646 | Ger |
| ult Probation Room (2966)
Alterations
Monty W. Connery | 5-15-68 | 10-11-68 | 7,951 | 7,951 | Ger |
| ime Lab & Criminal Info.
Bureau (2976)
Alterations
Trans-Western Const. Co. | 6-7-68 | 12-24-68 | 4,869 | 4,869 | Ger |
| men's Section - City Prison (2987)
Alterations
Monty W. Connery | 7-24-68 | 2-15-69 | 32,950 | 32,950 | Ger |
| Il of Justice, Addnl. Courtrooms (2935)
Gen. Const.
Wilco Construction Co. | 7-17-68 | 99% | 187,400 | 160,380 | Ger |
| Il of Justice, Alterations (2998)
Holding Tank & Booking Area
Wm. McIntosh & Son | 8-16-68 | 2-19-69 | 10,289 | 11,256 | Ger |
| Il of Justice (2954)
Alter. Inspectors' Bureau
Monty W. Connery | 4-10-68 | 7-31-68 | 7,250 | 7,250 | Ger |
| Il of Justice (3024)
Alter. Dist. Atty's Office
Kenneth K. Lind | 9-13-68 | 12-23-68 | 3,451 | 3,607 | Ger |
| Il of Justice (3035)
City Prison - 6th Floor
Installation of Door Controls
& Miscellaneous Work
Trans-Western Construction Co. | 11-13-68 | 6-3-69 | 10,769 | 13,112 | Ger |
| Il of Justice (3066)
County Jail - 7th Floor
Install. of Door Control &
Acoustical Tile
Monty W. Connery | 2-14-69 | 95% | 1,489 | 0 | Ger |
| Il of Justice (3080)
Exterior Waterproofing
Western Waterproofing Co. | 4-9-69 | 23% | 81,485 | 19,142 | Ger |
| Total Aggregate Value and Amount Expended | 11-22 | | \$400,394 | \$320,137 | |

CURRENT CONTRACT DATA 1968-69

| Description & Contractor | Awarded | Completed Date or % | Contract Amount | Amount Expended | Fund |
|---|----------|---------------------|-----------------|-----------------|----------------------------------|
| MISCELLANEOUS | | | | | |
| Central Police Station (2779)
North Beach Parking Garage
Itwell Constr. Co. | 9-13-67 | 76% | \$1,000,277 | \$ 717,585 | General |
| Central E. Waden Branch Library (2873)
General Construction
Cobb Bros. Inc. | 11-22-67 | 4-24-69 | 230,230 | 235,090 | General |
| Central Academy of Sciences (2919)
Painting - No. American Hall
Thomas F. Kenny Jr. | 1-10-68 | 10-7-68 | 3,175 | 3,175 | General |
| Central Academy of Fine Arts (2899)
Painting, Rest Rooms, Storage
and Lighting
Coburn Construction Co. | 1-17-68 | 10-15-68 | 53,797 | 55,341 | 1959
Private
State
Fund |
| Central Cabin Ranch Jr. Boys (2934)
Painting Work Admin Bldg.
Cory & Young Constr. Co. | 3-1-68 | 8-26-68 | 839 | 922 | General |
| Central Elder Hospital (2686-R)
Painting Model Diet Kitchen
Coburn Constr. Co. | 3-6-68 | 1-14-69 | 44,479 | 47,959 | General |
| Central Glen Valley Ranch (2901)
Painting Boys Facility
Painting Game Lines
Cott & Peterson-Grundy | 5-15-68 | 9-12-68 | 1,900 | 1,900 | General |
| Central Honors of Honor (2979)
Painting #9 Wall Covering
Brown Co. | 6-7-68 | 10-2-68 | 2,378 | 2,378 | General |
| Central Lakes Property (2964)
Painting Alterations
Kenneth K. Lind | 6-14-68 | 10-17-68 | 16,997 | 16,997 | General |
| Central Lakewood Gateway (2863)
Painting Construction
Coburn Construction Co. | 6-21-68 | 95% | 74,843 | 63,625 | General |
| Central School of Architecture (3012)
Painting Hyde St. - Floor Repairs
Frederick C. Scheven | 8-7-68 | 11-1-68 | 1,400 | 1,400 | General |
| Central Santa Clara County Jail (3007)
Painting Men's Bldg. - Jail No. 2
New Wall Hung Bunks
E. Toland & Son | 8-23-68 | 1-6-69 | 18,525 | 18,525 | General |
| Central Elder Hospital (3019)
Painting Medical X-Ray Room
modeled from Fluoroscopic Rm
conj. with installing X-Ray Equip
Illmor and Company | 9-20-68 | 2-18-69 | 10,484 | 11,151 | General |
| Central Metro Police Station (3028)
Painting Fire Escape & Misc. Work
J. McIntosh & Son | 10-2-68 | 2-6-69 | 2,834 | 2,834 | General |
| Central Commission Offices (3025)
Painting Alterations
Kenneth K. Lind | 10-2-68 | 12-20-68 | 3,572 | 3,769 | General |

CURRENT CONTRACT DATA 1968-69

| Description & Contractor | Awarded | Completed Date or % | Contract Amount | Amount Expended | Function |
|---|----------|---------------------|-----------------|-----------------|----------|
| MISCELLANEOUS (Cont.) | | | | | |
| Hero Police Station (3034)
Window Glazing
H. McIntosh & Son | 10-23-68 | 1-23-69 | 4,183 | 4,183 | General |
| Union Police Station (3031)
Window Glazing
H. McIntosh & Son | 10-23-68 | 12-20-68 | 2,443 | 2,443 | General |
| Clark Police Station (3045)
Window Glazing
Polloff & Mannoni | 11-20-68 | 4-11-69 | 3,761 | 3,761 | General |
| Reside Police Station
Window Glazing (3046)
Polloff & Mannoni | 11-20-68 | 4-11-69 | 4,039 | 4,039 | General |
| Den Valley Ranch (3083)
Cous. Treatment Gym Bldg.
The Sono-Ceil Co. | 3-28-69 | 5-29-69 | 3,752 | 3,752 | General |
| Reside Police Station (3044)
Protective Window Shields
Monty W. Connery | 12-11-68 | 4-29-69 | 3,027 | 3,217 | General |
| Northern Police Station (3050)
Window Glazing
Wayco Inc. | 12-27-68 | 4-9-69 | 6,366 | 6,366 | General |
| Den Gate Park (3042)
Claren Lodge
Miscellaneous Exterior Rprs
E. Narde Const. Co. | 12-27-68 | 52% | 10,850 | 5,078 | General |
| Place of Fine Arts (3057)
Decorative Ext. Lighting
McClure Electric, Inc. | 1-17-69 | 50% | 23,863 | 10,739 | General |
| W. F. Palace Legion of (3065)
Room - Lincoln Park
Painting Gallery No. 10
Beck Bros. | 2-14-69 | 4-10-69 | 4,280 | 4,280 | General |
| Wayside Rec. Area (3022)
M. Casey Bldg.
General Construction
Trans-Western Const. | 2-19-69 | 40% | 127,741 | 54,034 | General |
| Slater Hospital (3043)
Main Kitchen
Miscellaneous Repairs
Thornton Const. Co. | 2-14-69 | 97% | 7,280 | 5,131 | General |
| Total Aggregate Value and Amount Expended | | | \$1,667,315 | \$1,289,674 | |

274-5-712/

